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#### U. S. DEPARTMENT OF LABOR

JAMES J. DAVIS, Secretary

#### **BUREAU OF LABOR STATISTICS**

ETHELBERT STEWART, Commissioner

## MONTHLY

# LABOR REVIEW

Vol. XV, No. 3



September, 1922

#### SPECIAL FEATURES IN THIS ISSUE

Preparation of safety codes

Factory chiefs in New Jersey

Quantity and cost of clothing purchased by workingman's family in one year

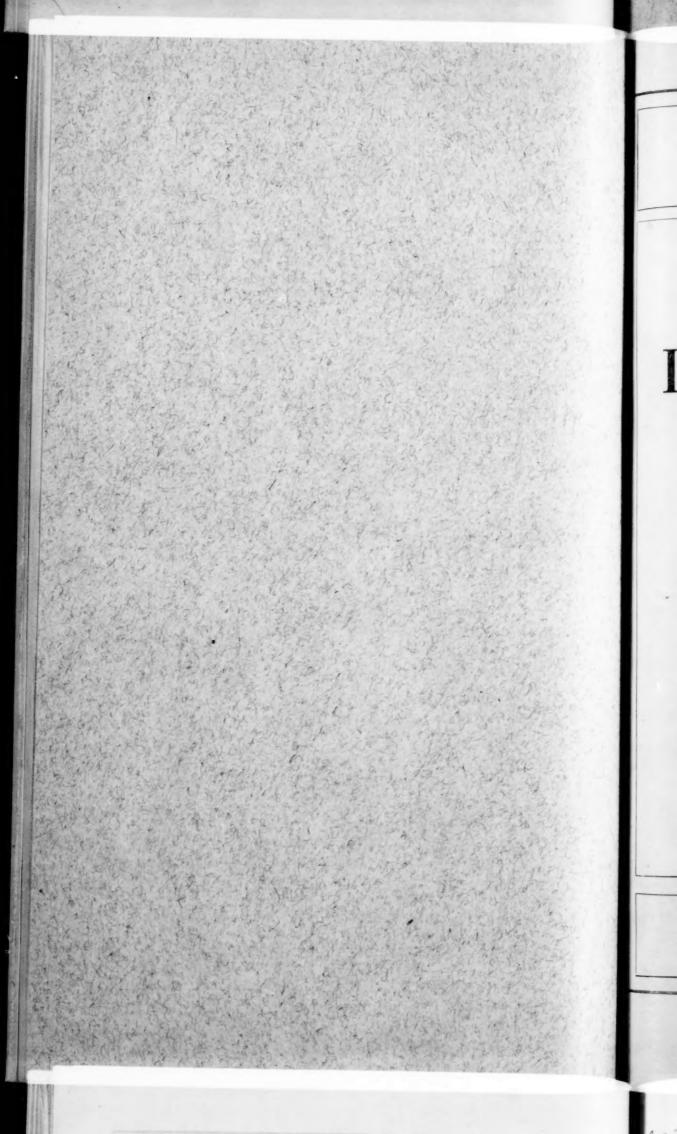
Union scale of wages and hours of labor

Agricultural wages in Norway and Sweden

Training of apprentices in the Government Printing Office

Power of U.S. Railroad Labor Board to enforce awards

WASHINGTON
GOVERNMENT PRINTING OFFICE



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## MONTHLY

# LABOR REVIEW

**VOLUME XV** 

NUMBER 3



SEPTEMBER, 1922

WASHINGTON
GOVERNMENT PRINTING OFFICE
1922

MONTHLY

ABOR REVIEW

#### CERTIFICATE.

This publication is issued pursuant to the provisions of the sundry civil act (41 Stats. 1430), approved March 4, 1921.

#### ADDITIONAL COPIES

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WASHINGTON

SEPTEMBER, 1922

Preparation of Safety Codes Under the Auspices of the American Engineering Standards Committee.<sup>1</sup>

By Morton G. Lloyd, Chief of Safety Section, U. S. Bureau of Standards.

#### Need for Safety Codes.

DISCUSSION of the importance of accident prevention appearto be superfluous before an association of this character whose members are directly concerned with compensation for industrial accidents and are familiar with the extent of casualties in American industries. Much has already been done through the safety-first movement to provide the proper physical conditions and to educate the industrial worker to use practices which will decrease the probability of accidents, but much more remains to be done in this direction.

The principal channel through which the State officials can promote accident prevention is through the inspection of factories and other work places and insistence that these shall be so constructed and perated as to provide for the safety and health of employees. making such inspections it is necessary that the inspector should have some standard of comparison by which to judge of the conditions which he encounters. Only by having such a standard of reference is it possible for different inspectors to treat different cases upon a uniform basis or even for a single inspector to be consistent in his decisions with reference to different industrial plants. Such a standard may exist only in the mind of the inspector and be subject to development and change from day to day. Much more satisfaclory results, however, can be obtained by having written standards subject to change only by definite action of the administrative uthority and capable of being known to factory managers, manufacturers of machinery, and others concerned with them before installations are made. It is then possible for such persons to plan heir installations so as to meet the requirements of the State officials. In that way more complete compliance on a more satisfactory basis s obtained.

It must be obvious, then, that the best work of the State factory inspector can be done upon the basis of enforcing a definite set of written rules which have been given full consideration before adoption and which are applied uniformly by all inspectors within a given jurisdiction and which are modified only by definite administrative action after due notice and full consideration. Consequently most of the States which are active in factory inspection work have definite

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<sup>&</sup>lt;sup>1</sup>Address to be delivered at the ninth annual meeting of the International Association of Industrial accident Boards and Commissions, Baltimore, Oct. 9-13, 1922.

regulations and it is the duty of their inspectors to see that such

regulations are complied with.

These regulations may take the form of statute laws or of rules promulgated by some administrative authority. Where the regulations are established by statute it is impossible to alter or amend them except by the same legislative process. Where the regulations are promulgated by administrative authority, changes and amendments can be made from time to time as experience or progress in the art makes advisable and a system which is more flexible and in general more satisfactory to all parties concerned is obtained.

Whatever legal form the regulations may take, it is desirable that they be as definite as possible, be easily understood, available in printed form, for the guidance of all interests concerned, and be given very thorough consideration by all parties and interests before their

mandatory adoption.

Such a code of safety rules is valuable not only for mandatory enforcement by administrative authorities and for authorized inspectors, but as a guide to the industry concerned in improving its methods and modifying its previous practices. Many manufacturers are only too glad to make improvements in the physical condition of their plants when the possibility of such improvements is pointed out to them and many of them are eager to apply any information which will improve the welfare of their employees. The greatest value of the safety code is probably in providing such information as a standard for the guidance of the factory manager, and I consider its usefulness as a regulation for legal enforcement to be secondary to this.

A good illustration of this attitude of factory managers is found in the recent action of the board of directors of the National Association of Dyers and Cleaners which has expressed the need felt by them

for a safety code for the industry of dry cleaning.

#### Advantages of National Codes.

MOST of the safety codes heretofore adopted and enforced by State boards and commissions have been developed locally and usually with the cooperation of a committee representing local In the preparation of such codes, use is frequently made of standards already adopted by other States or by industrial and engineering associations. In some cases such standards already available are adopted without change, but more often changes of greater or less extent are made for the purpose of improvement or of meeting some real or fancied need caused by local conditions. This is well illustrated by the boiler code prepared by the American Society of Mechanical Engineers and the electrical safety code prepared by the Bureau of Standards. If the national codes were generally prepared by processes which would take into consideration local variations and conditions, and which guaranteed the full consideration of the viewpoint of every interest involved and freedom from domination by any one interest, particularly such as might be of a commercial character, it would seem advantageous to adopt such national codes without the introduction of local variations. This would give the advantage of uniformity in requirements in different jurisdictions. The manufacturers of equipment could

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then supply a single line for use in all States and the work of the contractor and inspector would be simplified. It would also be easier for the insurance companies to harmonize their own require-

ments with those legally enforced by the State authorities.

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To obtain national codes of this character it is necessary that their preparation be accomplished by the widest and most thorough consideration of those familiar with the particular problems of the industry concerned and that full weight be given to the viewpoints of all interests involved. Where codes are prepared by local committees the same result is usually sought by having represented upon such committees employers, employees, technical experts, casualty insurance organizations, etc., as well as the administrative department concerned. For national codes to be equally or more satisfactory than these local codes, it is necessary that they should be formulated or approved by a body having at least equally wide representation and providing equally wide opportunity for criticism and comment before final adoption.

#### Conferences of 1919.

REALIZING the importance of safety codes prepared upon a national basis, and as the result of the contacts made by its previous work in this field and the demands for more extensive work of the same character, the Bureau of Standards called a preliminary conference on this subject in Washington in January, 1919, and a second conference in December of the same year. At these conferences the subject was fully discussed, the need for national codes generally recognized, and the best method for preparing them given full consideration. It was finally agreed that the scheme of profull consideration. cedure in establishing national standards which had been inaugurated by the American Engineering Standards Committee would be the most satisfactory to utilize in the preparation of safety codes and it was finally voted by a large majority that they should be prepared under the auspices of this committee. It was realized, however, that in order for this plan to be widely acceptable it would be necessary to enlarge the scope and membership of the American Engineering Standards Committee and this was done as a direct result of these conferences.

#### American Engineering Standards Committee.

THE American Engineering Standards Committee, after two years of preliminary negotiations, was organized in 1918 by five national engineering societies, who invited three of the United States Government departments to accept membership. These eight bodies named three representatives each who constituted the original membership of the committee. The purpose of this organization was to serve as a national clearing house for engineering and industrial standardization, to act as the official channel of cooperation in international standardization, and to provide an information service on engineering and industrial standardization matters.

The committee does not itself formulate any standards, but its principal function is to bring about systematic cooperation of the organized bodies, technical, industrial, and governmental, which are concerned

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with such standards. It has succeeded to such an extent that at the present time more than 160 organizations are actively cooperating in work under the auspices of the committee. Since 1919, when the constitution of the committee was altered, its membership has been enlarged so that it now consists of 53 members representing 5 departments and 1 independent establishment of the Federal Government, 9 national engineering societies, and 14 national industrial associations. This includes the United States Departments of Agriculture, Commerce, Interior, Navy, and War, and the Panama The application of the United States Department of Labor

for membership is now pending.

The method by which the American Engineering Standards Committee functions is as follows: When it is decided that some standard such as a safety code, should be formulated, a responsible organization not necessarily holding membership on the committee, is recognized as a sponsor for the work or several such organizations may be desig. nated as joint sponsors. This sponsor is supposed to organize the work and form a representative committee made up of members of all other organizations having an interest in this particular standard, which committee is technically known as a sectional committee. This sectional committee may itself carry out the work of formulating a standard or it may merely pass upon such work when it has already been done; it is free to modify any standard before its adoption. When the sectional committee agrees that a standard or code is in acceptable form for final adoption, it reports to the sponsor and if the sponsor body is satisfied with its work and approves it, it so reports to the Engineering Standards Committee. That committee then approves the standard as an American standard, as a tentative standard, or as a recommended practice.

An essential step in the process, however, is the approval by the Engineering Standards Committee of the make-up of the sectional committee in direct control of the work. To be approved, the sectional committee must be properly representative of the interests concerned and must be well balanced, so that no interest or closely connected group of interests shall be able to dominate the committee. In the case of safety codes it is required that the following

groups of interests be represented upon the committee:

(a) Manufacturers of the equipment.

(b) Employers. (c) Employees.

(d) Regulatory Government representatives.(e) Technical experts.

(f) Casualty insurance interests.

Up to the beginning of the present calendar year the American Engineering Standards Committee had approved 17 standards, of which 3 may be designated as safety codes. These latter are the National Safety Code for the Protection of the Heads and Eyes of Industrial Workers, the National Electrical (Fire) Code, and the Industrial Lighting Code. During the current year it has approved the Safety Code for Abrasive Wheels, the Safety Code for Foundries, and the National Electrical Safety Code. More than 20 other codes are being actively worked upon and some of them are nearly completed In addition, almost an equal number have been given preliminary

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consideration. For several of these codes, including the Safety Code for Abrasive Wheels, the International Association of Industrial

Accident Boards and Commissions is a joint sponsor.

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The initiation of new projects in the American Engineering Standards Committee usually arises through a demand from some interested organization. Where such an organization has itself carried on standardization work prior to the creation of the American Engineering Standards Committee it may submit its own standards for approval after proper examination as to their general acceptance and worthiness. When a standard has yet to be formulated the American Engineering Standards Committee may designate the interested organization as a sponsor or it may call a general conference of all parties believed to be interested, to determine whether such a standard should be formulated at the present time, what its scope shall be, and how the work shall be organized. Examples of this are a conference on colors of traffic signals which was held on May 23 of this year; and a combined electrical fire and accident code, a conference upon which subject is contemplated in the early future since a difference of opinion has developed as to the advisability of formulating such a code.

#### Safety Code Correlating Committee.

IN MOST cases of safety codes, however, the proposals for sponsorship and initiation of the work have arisen through a supplementary committee which is advisory to the American Engineering Standards Committee and is known as the Safety Code Correlating Committee. This committee is made up of representatives of those organizations of a national character considered to be most actively interested in safety codes. The present membership includes representatives of the following:

American Gas Association.

American Society of Mechanical Engineers.
American Society of Safety Engineers.

Association of Governmental Labor Officials.

International Association of Industrial Accident Boards and Commissions.

National Association of Mutual Casualty Companies. National Bureau of Casualty & Surety Underwriters.

National Electric Light Association. National Fire Protection Association. National Industrial Conference Board.

National Safety Council.

United States Bureau of Labor Statistics.

United States Bureau of Mines. United States Bureau of Standards.

This committee was formerly known as the National Safety Code Committee and had its origin in a joint committee resulting from the conference on industrial safety codes in December, 1919. Its relation to the American Engineering Standards Committee is that of an advisor having the direct contact with bodies interested in safety codes so that it can bring to the American Engineering Standards Committee, whose membership is of a more diverse character, the desires and needs of those more intimately concerned with safety.

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The first report of this committee in 1920 included a list of 37 codes which were considered of the most immediate importance and for which sponsor bodies were recommended. Since that time it has made additional recommendations from time to time and the Engineering Standards Committee has referred to it questions concerning

safety codes which required investigation before decision.

The members of the Safety Code Correlating Committee are frequently designated by the chairman of the Engineering Standards Committee to serve upon special committees which investigate the make-up of sectional committees for safety codes or advise the Engineering Standards Committee as to the suitability of approval of standards in this field which have been submitted to it. The committee thus functions in general to advise the Engineering Standards Committee and keep it informed when necessary of matters relating to the field of safety codes. The present chairman is Mr. S. J. Williams, chief engineer of the National Safety Council, and its secretary is Dr. P. G. Agnew, who is also secretary of the

American Engineering Standards Committee.

The following diagram shows the relation of the sponsors and the two committees in the case of the Safety Code for the Mechanical Transmission of Power. The group at the top of the diagram shows the various organizations naming members of the American Engineering Standards Committee. The latter appointed as sponsors for this code the American Society of Mechanical Engineers, the International Association of Industrial Accident Boards and Commissions and the National Bureau of Casualty and Surety Underwriters. The three sponsors named members of the sectional committee representing the casualty underwriters, state commissions, and manufacturers and users of the equipment concerned. They also asked the United States Bureau of Standards, International Association of Machinists, the National Association of Mutual Casualty Companies, and the National Safety Council to name representatives upon the sectional committee. A small group of these representatives formed a working subcommittee which put the preliminary draft of the code into form for presentation to the full committee. The sectional committee then discussed it and made such modifications as seemed to it proper in order that the code should be generally satisfactory. code has reached the stage of a final revision before formal adoption,

#### Conclusion.

IT WILL be apparent from the foregoing that the American Engineering Standards Committee, with the cooperation of the Safety Code Correlating Committee, furnishes the machinery for the formulation of safety codes in a manner which will insure thorough consideration of the merits of proposed rules and thorough consideration of the viewpoint of the various interests which are concerned with safety codes. The actual formulation of such codes may be by a sectional committee, by a working subcommittee of such sectional committee, or by the technical staff of a sponsor body, but in every case the entire sectional committee must pass upon the work and approve the tentative draft of a code before it is submitted to the American Engineering Standards Committee. The sectional com-

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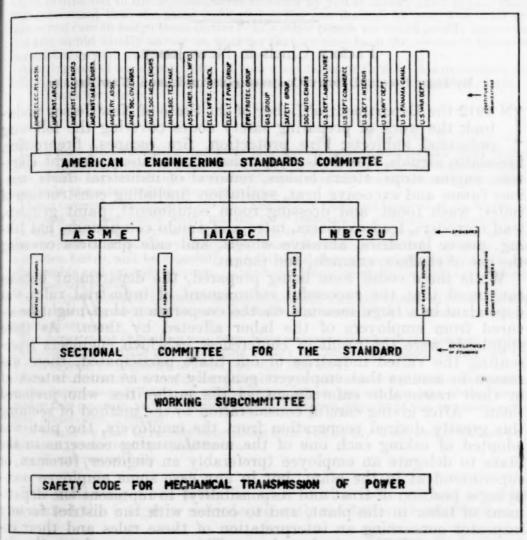
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mittees are made up of representatives from six groups above mentioned, and in the case of safety codes always include some representatives from State departments of labor or industrial commissions. When such codes have been approved by the American Engineering Standards Committee the assurance is given that they have had just as thorough consideration as is ever given locally to the formulation of a State code and in most cases they will have had wider consideration and criticism; in adopting such a code any State

ORGANIZATION OF AGENCIES AND COMMITTEES INVOLVED IN PREPARATION OF SAFETY CODES.



authority may feel sure that he is putting into effect as reasonable and as complete a set of rules as it is feasible to formulate at the time. Such codes may consequently be taken as models for local adoption and preferably in the form in which they have been nationally approved. It will generally be desirable to give local hearings upon such codes before adoption by the various States. In case modifications are proposed at such hearings an opportunity should be given to those engaged in the formulation of the national code to answer

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objections and explain why the provisions in the national code are considered superior to local proposals which will not usually have been subjected to the same wide and careful scrutiny. There may be at times conditions peculiar to local industries which will make modifications of national codes desirable and it may be feasible in particular States to call for more complete protection than has been considered reasonable in a national code, but in the more general case it will serve all interests more fully if the national code can be adopted by the States without change so as to provide uniform regulations in a given industry throughout the country.

### Factory Chiefs in New Jersey.

By John Roach, Deputy Commissioner of Labor, New Jersey.

In 1912 the Department of Labor of the State of New Jersey under took the work of preparing safety codes covering the following industrial subjects: Fire protection, fire escapes, fireproofing, fire-alarm signals, fire drills, transmission machinery, freight elevators, engine stops, steam boilers, removal of industrial dusts, noxious fumes and excessive heat, sanitation (including construction of toilet, wash room, and dressing room equipment), paint grinders, lead corroders, lead oxidizers, nitro and amido compounds, hat felting, power laundries, abrasive wheels, and safe practices covering

the use of shellacs, enamels, and japans.

While these codes were being prepared, the department became convinced that the successful enforcement of industrial rules was dependent in a large measure on the cooperation that might be secured from employers of the labor affected by them. As these standards were the result of conferences in which engineers representing the varied industries of our State participated, there was reason to assume that employers generally were as much interested in their reasonable enforcement as the authorities who prepared After giving careful consideration to the method of securing this greatly desired cooperation from the employers, the plan was adopted of asking each one of the manufacturing concerns in the State to delegate an employee (preferably an engineer, foreman, or superintendent in the plant, but in any case some employee occupying a position of trust and responsibility) to represent the department of labor in the plant, and to confer with the district factory inspector concerning an interpretation of these rules and their enforcement in that particular plant. This suggestion from the department met with a generous response from the employers, and in a short time about 2,600 representatives, or factory chiefs, as they were designated, had been appointed by the employees for this purpose.

Shortly after the inauguration of this movement, a meeting of nearly 2,000 factory chiefs was held in Newark. Motion pictures were shown, various types of safety apparatus were on exhibition, excellent addresses on safety were made by competent speakers, and, in general, a great deal of enthusiasm on the subject of the pro-

motion of safety was shown by the audience.

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Usually only one factory chief is appointed in each plant, although in several of the larger plants two or more factory chiefs have been appointed on request of the plant management. In plants where more than one shift is run, a factory chief may be selected for each

Upon the appointment of the factory chief the following form let-

ter and inclosure are sent to the appointing firm:

TRENTON, N. J.,

Gentlemen: I am inclosing you in this communication the usual type of letter which is directed to the representative selected by you as factory chief of your plant. We understand that the name indicated is the one desired by you, but if for any reason you care to assign these duties to any other person we would greatly appreciate it if you would kindly advise us, in order that we may keep the records of this office in conformity with your wishes.

Assuring you of our appreciation of your cooperation with us in this movement, and believing that you will be more than pleased with the results accomplished, I am

Yours very truly,

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TRENTON, N. J., -

DEAR SIR: Understanding that your firm has designated you factory chief of their factory, I congratulate you upon the confidence reposed in you, and want to impress upon you the responsibilities attached to this position, offering as it does an opportunity

to assist in the safeguarding of so many lives.

I have entered your name on our books as factory chief and instructed the inspectors to request your assistance when making their inspections. We shall appreciate it if you will make daily rounds of the building to see that it is kept free from any fire hazards, such as unnecessary sweepings, loose inflammable materials, excelsior, paper or wooden boxes, and be especially careful about the proper storage and handling of inflammable and explosive liquids. Particular attention should be paid to cellars and unfrequented places.

It is further desirable for you to acquaint yourself with the system of electric alarm, conduct the daily tests, and be sure that the fire apparatus is kept in constant readiness

The department is mailing you pamphlets of instruction as to the desired methods of conducting fire drills and organizing factory fire brigades. Upon request, we will

be glad to send an inspector to assist you with this work.

As an evidence of the confidence placed in you, and as a recognition of the position by the department of labor, an official badge, which you are to retain as long as you occupy this position, will be mailed you upon written request to the commissioner of labor, statehouse, Trenton.

We would be glad to receive suggestions from you at any time, and if we can be of

assistance, please feel free to address us.

Yours respectfully,

The following form letter is sent to the factory chief who has requested the badge in accordance with the letter of instructions:

TRENTON, N. J., -

Dear Sir: In accordance with our previous communication, I am inclosing you herewith the insignia of office for your position as factory chief. I believe our former communication clearly outlined your relation to our work. I would appreciate it if you would kindly acknowledge receipt of this badge.

Hoping you may enjoy the duties incident to this position, I am

Yours very truly,

During the winter months a lecture course, including exhibitions of motion pictures depicting various phases of industrial safety, is given for the benefit of factory chiefs and others interested in physical conservation. One of these lectures is usually given each month in

each industrial area, and they help to stimulate the interest of factory chiefs in their work.

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We have never known an employer to express dissatisfaction with the activities of a factory chief. In well-regulated establishments, the factory chief accompanies the factory inspector on his tour of inspection and discusses with him the interpretation of the rules and their enforcement in the plant. The factory inspector outlines the orders that he thinks the department should issue to make the plant safe, and the terms of these orders are discussed with the factory chief. In case a difference of opinion respecting the necessity for the issuance of a safety order arises between the factory inspector and the factory chief, a hearing is usually held by a representative of the department of labor and the terms of the order and the conditions surrounding its issuance are gone over carefully in conference, and, if necessary, the order is modified, altered, or, in some cases, if the circumstances seem to warrant it, rescinded.

The department thinks the factory chief has an important part to play in the successful and safe administration of the personnel relations of every well-regulated industrial establishment. Many times employers of labor complain that unsafe practices in their plants are the result of inattention and disobedience on the part of some of their employees. Equipment is often allowed to fall into a dangerous condition of disrepair, guards about moving machinery are removed and not replaced, while elevator gates may be tied up in an effort to expedite the use of the elevator; greasy stairs, insecure handrails, and congested fire escape exits, add to the list, while exposure to dust, fumes, dangerous vapors and gases play their part in making plant premises positively unsafe or relatively uncomfortable

The statement is often made by executives in positions of responsibility that most of the unsanitary and unsafe practices that abound in industry are due to carelessness, negligence, and positive disobedience on the part of their subordinates. It seems, therefore, that the factory chief has an important part to play in the establishment of safe practices in industry, for it is a part of his duty to bring to the attention of the principal authorities in a plant careless practices, as well as unsafe premises, that may cause industrial accidents.

The department of labor has become convinced that factory inspection falls down and fails completely to establish that measure of protection, contemplated by statute, in industrial activities, where cooperation and understanding between the management and the factory inspection bureau are lacking. In a large measure, the value of the work of the factory chief is enhanced by the knowledge that the physical care of the workers is to-day a matter of fundamental importance, and that it can be shown that even costly alterations to plant equipment which add to the safety of the workmen are a successful investment because of their steadying effect upon the working forces, and that these betterments increase and improve production and constitute factors which lead to eventual repayment.

Safety engineers who have given the question of accident prevention careful attention generally agree that less than 25 per cent of all industrial accidents can be prevented by means of the installation of physical safeguards. These safety engineers emphasize the value of good housekeeping in a plant and of the development of a spirit of

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watchfulness and careful attention to duty on the part of workmen, and they generally agree that the measure of safety that prevails in a plant depends on the measure of cooperation the management re-

ceives from the workmen.

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An intelligent, earnest factory chief is an important asset to an industrial plant, and a welcome addition to the departmental bureau charged with the responsibility of enforcing regulatory labor legislation. The position of factory chief is one that offers a wide scope for the exercise of individual initiative and personal ability, for though standards of physical conservation be prepared that cover a wide range of industrial safety and sanitation subjects, there still remains a broad field for safety development, by the factory chief, along special or unusual lines.

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#### INDUSTRIAL RELATIONS AND LABOR CONDITIONS

#### Report of Court of Industrial Relations of Kansas.

THE second annual report of the Court of Industrial Relations of the State of Kansas covers the year ended December 31, 1921. In its present form the court no longer exercises the functions of a commission of public utilities, as when first created, that office being reestablished as a separate agency of the government. There have been added to the duties of the court, however, the work of mine and factory inspection, supervision of woman and child labor including the minimum wage law, free employment service, statistical reports, advisory duties in reference to workmen's compensation, etc.

The division relating to industrial disputes is not the larger part of the work of the tribunal, but is the department which is new in its conception and operation, and therefore is the feature of the work which is attracting the attention not only of the State but of the nation as well.

A sketch is given of the legal proceedings affecting the work of the court since its organization, showing the opposition on the part of the mine union officials of the State to the work of the court as a labor tribunal, this being the source of six of the eight cases noted. In so far as final results have been attained, the law creating the court, and its activities under the law, have been fully sustained. Several of the more important decisions have already had attention

in various issues of the Monthly Labor Review.

An account of the packing strike of December, 1921, shows the mode of operation in a case in which no appeal to another court was A "plant assembly," representing both employers and employees, had arranged a new wage scale to follow the expiration, in September, 1921, of the scale fixed by Judge Alschuler, under the Bureau of Conciliation of the United States Department of Labor. This scale called for a considerable reduction from the expiring rates, and a strike vote resulted in a strike call on December 1, to be effective December 5. On the 3d the court held a sitting at Kansas City, to which representatives of the employers and employees were summoned, though but one of the latter appeared until other proceedings were had to bring them before the court. When finally brought into court they declared that they had no controversy which they desired to submit, as did also the employers. The court then announced that no matter in dispute being before it, it became its duty to see that the plants were operated with continuity and efficiency, to the end that the food supply of the State be maintained, as well as a market for the protection of the live-stock producers, which the court proposed to do.

With the cooperation of local police officers, the provisions of the law were enforced, the packing houses were able to continue oper-

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tion and within a few days again reached normal production, and the live-stock market was kept open and not interfered with; all the neat products that came upon the market were sold and at prices to in any way affected by the so-called strike. Thus the interests of the public were protected and this essential industry of Kansas mainained. The court informed the employees that this court was a neans provided by law for the settlement of the differences between them and their employers, which means was fully open to them, but that their disputes or demands could not and must not be enforced by means of violence, picketing, and in no other way than by the orderly processes of law. This broke the strike, and these results were accomplished without any litigation and with very few arrests for violation of law.

#### Labor Conditions in Venezuela.1

THE population of Venezuela consists of three elements—Indian, Negro, and Spanish—but is largely a mixture of these elements. The Negro infusion is most pronounced along the coast, while in the interior the people are of Indian and Spanish descent. Negroes from the West Indies are found in large numbers in the coast towns. There is a numerically small middle class with a greater percentage of Spanish blood. These people are the artisans, craftsmen, etc., of the country and also hold important clerical positions. The upper class is made up of descendants of the old Spanish families, in many cases mixed with Indian blood. Property is not widely divided, large landed estates being the rule.

Because the people of Venezuela prefer to live in the larger cities, there is always a plentiful labor supply there—domestic servants, operatives in the cigarette and textile factories, and, in the seaports, workers for handling cargoes. Elsewhere, especially in the interior, there is a general scarcity of labor, the petroleum companies having great difficulty in securing sufficient unskilled labor for the work in the oil fields. The labor shortage is also felt on the ranches. Unhealthful climatic conditions in the nonmountainous regions make it

difficult to secure and keep a sufficient supply of labor.

Most of the people (estimated at 70 per cent of the total) receive low wages and have low purchasing power. The average wage of common laborers in the interior is 3 to 4 bolivars (58 to 77 cents, par) per day, and about 25 per cent less in the llanos and Andean regions. At La Guaira stevedores receive an average wage of 40 cents per hour, with 60 cents for overtime, but at Puerto Cabello and Maracaibo the rates are lower, being 1 bolivar (19.3 cents, par) per hour in the latter port. In 1917 the Department of Public Works adopted the following daily wage scale and this has also been adopted for all railway and construction work by the larger companies: Overseers, 8 to 10 bolivars (\$1.54 to \$1.93, par); masons and carpenters, 6 to 8 bolivars (\$1.16 to \$1.54, par); foremen (in charge of common labor), 5 to 6 bolivars (\$0.97 to \$1.16, par); laborers, 3 to 4 bolivars (58 cents to 77

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<sup>&</sup>lt;sup>1</sup>United States. Department of Commerce. Bureau of Foreign and Domestic Commerce. Venezuela: Commercial and industrial handbook. Washington, 1922. pp. 23-28, 32.

cents, par); boys, 1.5 to 2 bolivars (29 cents to 39 cents, par) Because of the great increase in building and construction work there has been a scarcity of labor during the past two years, especially skilled labor, and higher wages have been paid, sometimes more than 25 per cent in advance of the wage scale just mentioned.

Nine hours constitute a working day. The "tarea," or task system.

is used in almost every industry, especially in agriculture. A certain amount of work per day is assigned to each man, the allotments being fixed by custom. Upon completion of the assignment, the peon (laborer) may either quit work for the day or do extra work for which

additional payment is made.

"There are no labor unions and no laws protecting workmen against accident. Industrial insurance is unknown." The only serious strike was that of harbor and railway employees in 1918 through which the employees won a 25 per cent wage increase. Although peonage is now illegal, it still exists to some extent in the outlying regions.

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#### PRICES AND COST OF LIVING.

#### Retail Prices of Food in the United States.

The following tables are based on figures which have been received by the Bureau of Labor Statistics from retail dealers through monthly

reports of actual selling prices.1

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Table 1 shows for the United States retail prices of food on July 15, 1921, and on June 15 and July 15, 1922, as well as the percentage changes in the year and in the month. For example, the price of navy beans per pound was 7.9 cents on July 15, 1921; 10.6 cents on June 15, 1922; and 11.1 cents on July 15, 1922. These figures show an increase of 41 per cent in the year and 5 per cent in the month.

The cost of the various articles of food 2 combined showed a decrease of 4 per cent in July, 1922, as compared with July, 1921, and an increase of 1 per cent in July, 1922, as compared with June, 1922.

TABLE 1.—AVERAGE RETAIL PRICES OF SPECIFIED FOOD ARTICLES AND PER CENT OF INCREASE OR DECREASE JULY 15, 1922, COMPARED WITH JUNE 15, 1922, AND JULY 15, 1921.

[Percentage changes of five-tenths of 1 per cent and over are given in whole numbers.]

Article.	Unit.	Averag	ge retail pri	Per cent of increase (+) or decrease (- July 15, 1922, com- pared with—		
	1917, 3.9	July 15, 1921.	June 15, 1922.	July 15, 1922.	July 15, 1921.	June 15, 1922.
		Cents.	Cents.	Cents.		
Sirloin steak	Pound	40.2	38. 4	39. 2	- 2	+2
Round steak		35.8	33. 5	34.2	- 2	+2
Rib roast	do	29.3	28. 2	28.6	- 2 - 2	+1
Chuck roast	do	20.7	20. 1	20. 3		+1
Plate beef	do	13. 2	12.9	12.8	- 3	-1
Pork chops	do	34. 3	33.9	34.4	+ 0.3	+1
Bacon	do		40.4	40.6	- 6	+0.4
Ham	do	51.0	51. 9	52. 2	+ 2	+1
Lamb, leg of	do	35. 2	38.0	37.4	+6	-2
Hens	do	38.8	36. 9	35. 7	- 8	-3
Salmon, canned, red	do	36. 8	32. 2	32, 1	-13	-0.
Milk, fresh	Quart	14.0	12.5	12.8	- 9	+2
Milk, evaporated	. 15-16 oz. can	13. 5	10. 9	10. 9	-19	0
Butter	. Pound	46.6	44.9	45.7	- 2	+2
Oleomargarine	do	29. 1	27.5	27.5	- 6	0
Nut margarine	do	26. 9	26.7	26.6	- 1	-0.
Cheese	do	29. 5	31. 1	31.5	+ 7	+1
Lard	do	16. 7	17.2	17. 2	+ 3	0
Crisco	do	21.0	22.4	22.7	+ 8	+1
Eggs, strictly fresh	. Dozen	42.3	34. 1	36.0	-15	+6
Bread	. Pound	9. 7	8.8	8.8	- 9	0
Flour.			5.3	5. 2	-10	-2
Corn meal	do	4.4	3.9	3.9	-11	0

<sup>1</sup> In addition to monthly retail prices of food and coal, the bureau secures prices of gas and dry goods from each of 51 cities and of electricity from 32 cities. These prices are published at quarterly intervals in the Monthly Labor Review.

<sup>1</sup> The following 22 articles, weighted according to the consumption of the average family, have been used from January, 1913, to December, 1920: Sirloin steak, round steak, rib roast, chuck roast, plate beef, pork chops, bacon, ham, lard, hens, flour, corn meal, eggs, butter, milk, bread, potatoes, sugar, cheese, rice, coffee, and tea. The remainder of the 43 articles shown in Tables 1 and 2 have been included in the weighted aggregates for each month, beginning with January, 1921.

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TABLE 1.—AVERAGE RETAIL PRICES OF SPECIFIED FOOD ARTICLES AND PER CENT OF INCREASE OR DECREASE JULY 15, 1922, COMPARED WITH JUNE 15, 1922, AND JULY 15, 1921—Concluded.

Article.	Unit.	Averag	ge retail pr	Per cent of increase (+) or decrease (- July 15, 1922, com pared with—		
interest of period being	Joseft and	July 15, 1921.	June 15, 1922.	July 15, 1922.	July 15, 1921.	June 1 1922.
Rolled oats,	do	Cents. 9.9 12.2 29.7 20.6 8.7 7.9 3.4 5.4 5.5 14.5 17.5 11.4 7.1 69.2 35.6 18.6 30.7 40.8 51.4	Cents, 8, 7 9, 9 25, 8 20, 0 9, 6 10, 6 3, 5 8, 0 5, 1 13, 2 15, 5 17, 8 13, 9 7, 1 68, 0 36, 1 20, 6 24, 1 36, 3 63, 5	Cents. 8,7 9,9 25,8 20.0 9,6 11,1 3,6 7,0 4,6 13,1,4 17,8 13,8 7,6 68,0 36,2 20,8 24,0 35,8 63,2	-12 -19 -13 - 3 +10 +41 + 6 +30 -16 - 6 - 3 + 2 #21 + 7 - 2 + 12 - 22 - 12 + 23 - 4	-14 -13 -14 -1-14 -1-14 -1-14 +1-14 +1-14 -1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14 +1-14

<sup>1</sup> See note 2, p. 15.

Table 2 shows for the United States average retail prices of specified food articles on July 15, 1913 and 1914, and on July 15 of each year from 1917 to 1922, together with the percentage changes in July of each of these specified years compared with July, 1913. For example, the price of potatoes per pound was 1.9 cents in July, 1913; 2.6 cents in July, 1914; 4.2 cents in July, 1917; 3.9 cents in July, 1918; 4.8 cents in July, 1919; 8.9 cents in July, 1920; 3.4 cents in July, 1921; and 3.6 cents in July, 1922. As compared with the average price in July, 1913; these figures show the following percentage increases: 37 per cent in July, 1914; 121 per cent in July, 1917; 105 per cent in July, 1918; 153 per cent in July, 1919; 368 per cent in July, 1920; 79 per cent in July, 1921; and 89 per cent in July, 1922.

The cost of the various articles of food combined showed an increase of 43 per cent in July, 1922, as compared with July, 1913.

TABLE 2. CENT COMPA

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sirloin sta Round st Rib roast Chuck ro Plate bee Pork chol Bacon .... Lamb, le Hens .... Salmon, Milk, fres Wilk, eva Butter .. Oleomarg Nut mary Lard.... Crisco... Bread... Flour ... Corn mea Rolled on

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Onions... Cabbage.

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TABLE 2.—AVERAGE RETAIL PRICES OF SPECIFIED FOOD ARTICLES AND PER CENT OF INCREASE OR DECREASE JULY 15 OF CERTAIN SPECIFIED YEARS COMPARED WITH JULY 15, 1913.

[Percentage changes of five-tenths of 1 per cent and over are given in whole numbers.]

Article.	Unit.		Ave	erage i	retail	price	July	15—		ei fi	rease	of i (-) J ar con	uly 1	5 of ea	ich s	peci-
A CONTRACTOR		1913	1914	1917	1918	1919	1920	1921	1922	1914	1917	1918	1919	1920	1921	1922
Sirloin steak Round steak Rib roast Chuck roast Plate beef Pork chops Bacon Ham Lamb, leg of Hens Salmon, canned, red Milk, fresh Milk, evaporated Butter Oleomargarine Nut margarine Cheese Lard Crisco Eggs, strictly fresh Bread Flour Corn meal Rolled oats Corn flakes Corn flakes Corn flakes Corn Meat Macaroni Rice Beans, navy Potakoes Onions	dododododododo	Cts. 26. 4 23. 2 20. 2 20. 2 21. 7 28. 0 19. 7 21. 7 21. 7 21. 7 21. 7 21. 7 25. 0 34. 8 8 8 3 3. 0 3. 0 3. 0 3. 0 3. 0 3. 0	Cts. 27. 0 24. 4 20. 9 112. 6 22. 3 27. 4 20. 3 22. 0 3 34. 2 22. 7 15. 4 30. 2 6 2 3 3. 1	Cts. 32.7 30.6 25.8 25.8 27.4 43.0 27.4 43.0 27.4 45.9 28.0 27.4 45.9 27.3 5.9 9.7 3.3 5.9 9.7 3.5 5.9	Cts. 42.1 40.3 33.3 33.2 51.2 42.4 43.7 37.3 38.0 1 29.6 13.2 52.6 6.7 6.7 6.7 6.7	Cts. 43, 4 40, 7 7 33, 5 7 7 20, 3 46, 2 20, 3 46, 2 42, 0 15, 9 64, 9 35, 7 442, 0 38, 9 56, 6, 5 7 84, 1 1 25, 2 16, 4 1 1 25, 2 16, 4 1 1 25, 2 16, 4 1 1 25, 2 16, 4 1 1 25, 2 16, 4 1 1 1 25, 2 16, 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cts. 48, 64, 45, 00, 35, 95, 11, 143, 7, 7, 154, 7, 7, 154, 7, 7, 155, 7, 16, 7, 7, 16, 7, 7, 16, 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	Cts. 40. 2 35. 8 29. 3 35. 2 34. 3 43. 2 251. 0 355. 8 8 36. 8 14. 0 13. 5 5 6 6 6 129. 1 21. 0 3 9. 7 5. 8 4. 4 4 9 12. 2 2 9. 7 6 9 6 7 12. 2 9. 7 6 7 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	Cts. 39. 2 28. 6 40. 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40. 6 40.	+ 2 + 5 + 3 + 3 + 3 + 3 + 3 + 1 + 1 + 1 + 1 + 1	+ 24 + 32 + 28 + 34 + 35 + 46 + 54 + 54 + 52 + 29 + 51 + 72 + 121 + 97	+ 59 + 74 + 65 + 75 + 84 + 75 + 87 + 89 + 75 - + 51 - + 51 - + 51 - + 51 - + 104 + 103 + 123 	+ 64 + 75 + 66 + 69 + 113 + 108 + 102 + 94 + 70 - + 80 - + 164 - + 164 - + 127 + 117	+ 84 + 94 + 78 + 74 + 757 + 101 + 95 - 107 + 910 + 107 + 95 - 108 + 82 + 82 + 113 + 164 + 133	+52 +54 +45 +26 +8 +58 +58 +59 +79 +79 +34 +35 +41 +73 +76 +47	+48 +47 +42 +56 +45 +45 +65 +45 +45 +45 +45 +45 +45 +45 +45 +45 +4
Cabbage Beans, baked Corn, canned Peas, canned Tomatoes, canned Sugar, granulated Pea Coffee Prunes Raisins Bananas Oranges	No. 2 candododododododododododododododododododododododo	5. 5 54. 4 29. 8	5. 2 54. 7 29. 6	9. 2 59. 9 30. 6 16. 0 14. 8	9. 2 65. 3 30. 1 16. 7 15. 1	17. 3 19. 3 19. 2 16. 1 10. 9 70. 5 46. 2 26. 5 17. 3 39. 2	16. 9 18. 7 19. 3 15. 2 26. 5 74. 4 49. 3 28. 4 28. 2	5. 5 14. 2 15. 8 17. 5 11. 4 7. 1 69. 2 35. 6 18. 6 30. 7 40. 8	13. 3 15. 4 17. 8 13. 8 7. 6 68. 0 36. 2 20. 8 24. 0 35. 8	- 5 + 1 - 1	+ 67 + 10 + 3		+ 98 + 30 + 55	+382 + 37 + 65	+29 +27 +19	+38

<sup>&</sup>lt;sup>1</sup> All. <sup>2</sup> 15-16-ounce can.

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<sup>8-</sup>ounce package.28-ounce package.

<sup>&</sup>lt;sup>5</sup> See note 2, p. 15.

Table 3 shows the changes in the retail price of each of 22 articles of food<sup>3</sup> as well as the changes in the amounts of these articles that could be purchased for \$1, each year, 1913 to 1921, and in July, 1922.

TABLE 3.—AVERAGE RETAIL PRICES OF SPECIFIED ARTICLES OF FOOD AND AMOUNT PURCHASABLE FOR \$1, IN EACH YEAR, 1913 TO 1921, AND IN JULY, 1922.

1921 relat by e and The pric avel the bace figu the I the Jan the usec bety ing mar cons (p. : the trer give the dow The per on t

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	Sirloin	steak.	Round	l steak.	Rib	roast.	Chuck	roast.	Plate	e beef.	Pork	chops.
Year.	Average retail price.	Amt. for \$1.	Average retail price.	Amt. for \$1.	Average retail price.	Amt. for \$1.	Average retail price.	Amt.	Average retail price.	Amt. for \$1.	Average retail price.	Amt for \$1
1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922: July.	. 257 . 273 . 315 . 389 . 417 . 437 . 388	Lbs. 3.9 3.9 3.7 3.2 2.6 2.4 2.3 2.6	Per lb. \$0, 223 . 236 . 230 . 245 . 290 . 369 . 389 . 395 . 344 . 342	Lbs. 4.5 4.2 4.3 4.1 3.4 2.7 2.6 2.5 2.9 2.9	Per lb. \$0, 198 . 204 . 201 . 212 . 249 . 307 . 325 . 332 . 291 . 286	Lbs. 5.1 4.9 5.0 4.7 4.0 3.3 3.1 3.0 3.4 3.5	Per lb. \$0. 160 . 167 . 161 . 171 . 209 . 266 . 270 . 262 . 212 . 203	Lbs. 6.3 6.0 6.2 5.8 4.8 3.8 3.7 3.8 4.7 4.9	Per lb. \$0. 121 . 126 . 121 . 128 . 157 . 206 . 202 . 183 . 143 . 128	Lbs. 8.3 7.9 8.3 7.8 6.4 4.9 5.0 5.0 7.8	Per lb. \$0, 210 . 220 . 203 . 227 . 319 . 390 . 423 . 423 . 349 . 344	Lbn. 4. 4. 4. 3. 2. 2. 2. 2. 2. 2. 2. 2.
CONTRACTOR OF SEC	Bac	on.	Ha	ım.	La	rd.	Не	ens.	Eg	gs.	Bu	tter.
1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922: July.	.269 .287 .410 .529 .554 .523 .427	Lbs. 3.7 3.6 3.7 3.5 2.4 1.9 1.8 1.9 2.3	Per lb. \$0, 269 . 273 . 261 . 294 . 382 . 479 . 534 . 555 . 488 . 522	Lbs. 3.7 3.8 3.4 2.6 2.1 1.9 1.8 2.0 1.9	Per lb. \$0, 158 . 156 . 148 . 175 . 276 . 333 . 369 . 295 . 180 . 172	Lbs. 6.3 6.4 6.8 5.7 3.6 3.0 2.7 3.4 5.6 5.8	Per lb. \$0. 213 . 218 . 208 . 236 . 286 . 377 . 411 . 447 . 397 . 357	Lbs. 4.7 4.6 4.8 4.2 3.5 2.7 2.4 2.2 2.5 2.8	Perdoz. \$0, 345 . 353 . 341 . 375 . 481 . 569 . 628 . 681 . 509 . 360	Dozs. 2.9 2.8 2.9 2.7 2.1 1.8 1.6 1.5 2.0 2.8	Per lb \$0. 383 .362 .358 .394 .487 .577 .678 .701 .517 .457	Lbs., 2 2, 2, 2, 2, 1, 1, 1, 1, 2, 2
	Che	ese.	Mi	lk.	Bre	ead.	Flo	our.	Corn	meal.	R	ice.
1913. 1914. 1915. 1916. 1917. 1918. 1919. 1929. 1921. 1922: July.	. 359	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8, 2.3 2.4 2.9 3.2	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .128	Qts. 11, 2 11, 2 11, 4 11, 0 9, 0 7, 2 6, 5 6, 8 7, 8	Per lb. \$0, 056 .063 .070 .073 .092 .098 .100 .115 .099 .088	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2 10. 0 8. 7 10. 1 11. 4	Per lb. 80, 033 . 084 . 042 . 044 . 070 . 067 . 072 . 091 . 058 . 052	Lbs. 30.3 29.4 23.8 22.7 14.3 14.9 13.9 12.2 19.2	Per lb: \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039	Lbs. 33.3 31.3 30.3 29.4 17.2 14.7 15.6 15.6 122.2 25.6	Per lb. \$0. 087	Lba. 11. 11. 11. 11. 12. 7. 6. 5. 10. 10.
mbrasse of	Pota	toes.	Sug	ar.	Coff	fee.	Te	a.	W1 () I	Tal.		
1913 1914 1915 1916 1917 1918 1919 1920 1921 1922: July	Per lb. \$0. 017 .018 .015 .027 .043 .032 .038 .063 .031	Lbs. 58. 8 55. 6 66. 7 37. 0 23. 3 31. 3 26. 3 15. 9 32. 3 27. 8	Per lb. \$0, 055 .059 .066 .080 .093 .097 .113 .194 .080 .076	Lbs. 18. 2 16. 9 15. 2 12. 5 10. 8 10. 3 8. 8 5. 2 12. 5 13. 2	Per lb. \$0, 298 . 297 . 300 . 299 . 302 . 305 . 433 . 470 . 363 . 362	Lbs. 3.4 3.4 3.3 3.3 3.3 2.1 2.8 2.8	Per lb. \$0, 544 .546 .545 .546 .582 .648 .701 .733 .697 .680	Lbs. 1 8 1.8 1.8 1.7 1.5 1.4 1.4 1.5				Control of the contro

<sup>&</sup>lt;sup>3</sup> Although monthly prices of 43 food articles have been secured since January, 1919, prices of only 2 of these articles have been secured each month since 1913.

#### Index Numbers of Retail Prices of Food in the United States.

IN TABLE 4 index numbers are given which show the changes in the retail prices of each of 22 food articles,4 by years from 1907 to 1921, and by months for 1921 and 1922.5 These index numbers, or relative prices, are based on the year 1913 as 100, and are computed by dividing the average price of each commodity for each month and each year by the average price of that commodity for 1913. These figures must be used with caution. For example, the relative price of rib roast for the year 1920 was 168, which means that the average money price for the year 1920 was 68 per cent higher than the average money price for the year 1913. The relative price of bacon for the year 1919 was 205 and for the year 1920, 194, which figures show a drop of 11 points but a decrease of only 5 per cent in the year.

In the last column of Table 4 are given index numbers showing the changes in the retail cost of all articles of food combined. From January, 1913, to December, 1920, 22 articles have been included in the index, and beginning with January, 1921, 43 articles have been used.4 For an explanation of the method used in making the link between the cost of the market basket of 22 articles, weighted according to the average family consumption in 1901, and the cost of the market basket based on 43 articles and weighted according to the consumption in 1918, see Monthly Labor Review for March, 1921

(p. 25).

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The curve shown in the chart on page 21 pictures more readily to the eye the changes in the cost of the family market basket and the trend in the cost of the food budget than do the index numbers given in the table. The retail cost of the food articles included in the index has decreased since July, 1920, until the curve is brought down in July, 1922, to approximately where it was in April, 1917. The chart has been drawn on the logarithmic scale, because the percentages of increase or decrease are more accurately shown than on the arithmetic scale.

<sup>&</sup>lt;sup>4</sup> See note 2, p. 15.
<sup>5</sup> For index numbers of each month, January, 1913, to December, 1920, see Monthly Labor Review for February, 1921, pp. 19-21.
<sup>6</sup> For a discussion of the logarithmic chart see article on "Comparison of arithmetic and ratio charts," by Lucian W. Chaney, Monthly Labor Review for March, 1919, pp. 20-34. Also, "The 'ratio' charts," by Prof. Irving Fisher, reprinted from Quarterly Publications of the American Statistical Association June, 1917, 24 pp.

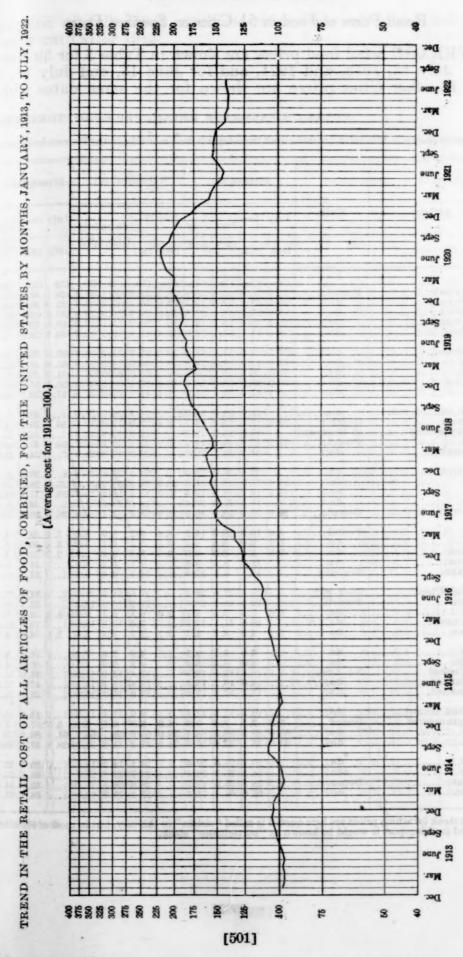
TABLE 4.—INDEX NUMBERS SHOWING CHANGES IN THE RETAIL PRICES OF THE PRINCIPAL ARTICLES OF FOOD IN THE UNITED STATES, BY YEARS, 1907 TO 1921, AND BY MONTHS FOR 1921 AND FOR A PART OF 1922.

[Average for year 1913=100.]

All articles com-	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	138 138 138 141 151 151 151 151 151 151 151 151 151
Tea.	24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>8888888</b>
Cof- fee.	1100 100 100 100 100 100 100 100 100 10	81128812
Su- gar.	105 107 107 107 108 108 108 108 108 117 117 117 117 117 117 117 117 117 11	1529 1529 1539 1539 1539 1539 1539 1539 1539 153
Pota- toes.	105 1111 1112 1130 1130 1130 1130 1130 1130	1282 171 171 170 170 170 170 170 170 170 170
Rice.	100 100 100 100 100 100 100 100 100 100	11088110
Corn meal.	25.55.55.55.55.55.55.55.55.55.55.55.55.5	1888 1888 1888 1888 1888 1888 1888 188
Flour.	100 100 100 100 100 100 100 100 100 100	25 16 16 16 16 16 16 16 16 16 16 16 16 16
Bread.	100 100 100 100 100 100 100 100 100 100	164 165 165 165 165 165 165 165 165 165 165
Mik.	28 28 28 28 28 28 28 28 28 28 28 28 28 2	851 841 100 100 100 100 100 100 100 100 100 1
Chees e	551258883557575566 5515588835575757566	841 841 841 841 841 841 841 841 841 841
But- ter.	888 884 100 100 11 11 11 11 11 11 11 11 11 11 1	120 120 120 120 120 120 120 120 120 120
Eggs.	28282828282828282828288288888888888888	34222223 34222223
Hens.	888 888 888 888 888 888 888 888 888 88	113 173 173 173
Lard.	28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	109 109 109 109 109 109 109 109 109 109
Наш.	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	164 188 193 193 193
Ba- con.	277 288 282 282 283 283 283 283 283 283 283	894445
Pork chops.	45 28 28 28 28 28 28 28 28 28 28 28 28 28	164 149 159 164 165 165 165 165 165 165 165 165 165 165
Flate beef.	100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100
Chuck roast.	100 100 100 100 100 100 100 100 100 100	25 25 25 25 25 25 25 25 25 25 25 25 25 2
Rib roast.	55.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5	135 138 142 142 142
	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	88188 8819 8819 8819 8819 8819 8819 881
Sirloin Round steak. steak.	8555858585858588588835888588833588588833588588	8875423 2545433
Year and month.	1907 1908 1909 1910 1911 1911 1914 1915 1918 1918 1918 1919 1920 1920 1920 1920 1920 1921 1921	January February March April May June

TO THE SAME THE PARTY OF THE PRINTED STATES BY MONTHS INNIARY 1913. TO JULY, 1922.

[500]



#### Retail Prices of Food in 51 Cities on Specified Dates.

A VERAGE retail food prices are shown in Table 5 for 39 cities for July 15, 1913, and 1921, and for June 15, and July 15, 1922 For 12 other cities prices are shown for the same dates with the

TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPA

[The prices shown in this table are computed from reports sent monthly to the Bureau by retail deals

		1	tlan	ta, Ga		В	altim	ore, M	d	Bir	mingh	am, Al
Article.	Unit.	July	15—	June	July	July	15—		July 15,	July	15—	June J
200	•	1913	1921	1922.	1922.	1913	1921	15, 1922.	1922.	1913	1921	15, 1 1922. 19
Sirloin steak	dododo	21. 5 19. 1 15. 9	36. 2 33. 7 28. 1 20. 5	35. 4 32. 5 27. 5 19. 7	35. 8 32. 5 27. 5 19. 5	24. 3 23. 0 20. 0 16. 7	39. 8 36. 3 29. 9 20. 9	36. 8	34.7 29.4 19.3	28, 1 22, 5 20, 6 16, 8	38.9 35.0 28.9 22.5	34.8 3 30.7 3 25.5 2 19.5 10
Pork chops Bacon Ham. Lamb, leg of Hens.	do	32.0	42.8	39.3	39. 8	26.0	36.0	33. 2 34. 0 55. 6 38. 5 38. 6	35. 4	35. 0	48.2	32.3 3 42.3 4 51.7 9 37.0 3 30.5 2
Salmon, canned, red. Milk, fresh Milk, evaporated Butter Oleomargarine	doQuart15–16 oz. canPounddo.	10. 0 37. 1	15. 6 17. 5 15. 0 47. 7 34. 3	30. 6 15. 7 13. 2 46. 6 29. 5	30, 2 15, 7 13, 3 45, 9 29, 6	8.8	31. 7 12. 0 12. 9 49. 5 28. 3	26. 6 12. 0 10. 3 49. 1 25. 3	26. 9 12. 0 10. 4 49. 7 24. 6	10. 3 39. 0	38. 0 20. 0 15. 0 47. 0 34. 5	12.2 1 44.6 4
Nut margarine Cheese Lard Crisco. Eggs, strictly fresh	do	25, 0	27. 5	26. 0 30. 7	26.0 31.6	22. 0 15. 0 25. 9	25, 5 29, 8 15, 4 18, 6 38, 5	25, 6 30, 9 16, 4 20, 4 31, 4	25. 6 31. 3 16. 7 21. 2 32. 8	23. 0 16. 8 28. 3	30. 3 28. 3 17. 3 24. 3 36. 2	28.1 2 29.5 2 17.7 1 21.2 2 30.0 3
Bread	Pound	6.0 3.6 2.6	10. 9 5. 9 3. 6	10.0 5.5 2.9 9.8	10. 0 5. 5 3. 0	3. 2 2. 5	5. 9 3. 7 9. 7	5.1 3.1 8.3	5.0 3.1 8.3	3.8	3.1 11.7	5. 8 2. 8 9. 3
Cream of Wheat Macaroni Rice Beans, navy Potatoes.	28-oz. pkg Pounddodododo.	8.6	31. 4 22. 0 7. 5 10. 0 4. 2	27. 0 21. 9 9. 3 11. 1 4. 7	26.8 22.0 8.7 11.3 4.7	9.0	27.6 21.2 9.1 7.6 2.7	24. 9 17. 9 9. 4 10. 1 3. 8	10. 9	8.2	9.0	10.8
Onions	do		8.0	9.5	0 1		40	3.9	2.7 11.9 14.3		16. 0 17. 3	4.3 15.1 16.6
Fomatoes, canned Sugar, granulated Fea Coffee	do Pound do	5. 8 60. 0 32. 0	10. 3 7. 3 89. 8 33. 1	13. 9 7. 4 88. 4 35. 9	13. 8 7. 9	4.9	9. 9 6. 3 65, 9	66.3		5. 5 61. 3	84.8	7. 2 79. 7
Prunes	do do Dozen		20. 7 34. 3 28. 2	21. 6 25. 3 26. 6 66. 4	25. 0 27. 3		28.7 28.0	18.3 22.8 24.5 70.9	23.1		40.8	25.1

<sup>&</sup>lt;sup>1</sup> The steak for which prices are here quoted is called "sirloin" in this city, but in most of the other cities included in this report it would be known as "porterhouse" steak.

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37.3

5.9
3.5

9.4
2.2
2.2

1 Per

exception of July, 1913, as these cities were not scheduled by the bureau until after 1913.

ARTICLES OF FOOD IN 51 CITIES ON SPECIFIED DATES.

As some dealers occasionally fail to report, the number of quotations varies from month to month.]

1	Boston	, Mass.	1		dgepo Conn.		В	uffalo	, N. Y	Y.	Bu	tte, Mo	ont.	Cha	arlest	on, S.	C.
July	15—	June	July		June	July	July	15—		July	July	June	July	July	15—	June	
1913	1921	15, 1922.	15, 1922.	15, 1921.	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.	15, 1921.	15, 1922.	15, 1922.	1913	1921	15, 1922.	1922.
Cts. 1 35. 8 35. 8 25. 6 18. 7		49. 2 34. 8 23. 0	Cts.  1 61. 1 52. 3 35. 3 23. 3 15. 6	34. 7 23. 6	37. 1 33. 4	34.7 24.5	20. 8 17. 0 15. 8	33.6 27.9 19.9	30. 9 27. 6 19. 5	32.7 27.9 20.0	17.8	26.3	Cts. 32. 9 28. 3 26. 0 18. 3 12. 3	20. 0 20. 5 15. 0	37.3 30.7	30. 8 24. 2	35. 4 31. 1 23. 3
24. 2 25. 8 33. 0 25. 0 26. 2	37. 3 38. 4 57. 8 39. 8 44. 9	36.6 59.3 41.6	37. 0 37. 2 60. 0 41. 5 39. 8	48. 5 61. 9 41. 8	43.7 63.5 40.4	64. 5 41. 0	25.0 28.7 17.0	33.9 50.5 29.1	34. 2 50. 6 34. 6	34. 7 51. 8 32. 1	53, 1 55, 6 30, 5	50. 0 58. 3 33. 6	34. 0 49. 1 56. 8 32. 9 31. 2	26.3 28.3 21.7	47.6 38.8	35. 5 48. 9 43. 9	35. 8 48. 9 43. 3
8, 9 35, 5	34. 7 15. 2 14. 1 46. 6 31. 6	12, 5 11, 4 46, 3	31. 2 13. 5 11. 4 46. 8 29. 6	14. 0 13. 8 45. 2	10.6 45.6	13. 0 10. 9 46. 4	33.0	12.4	12.0 10.1 44.0	13. 0 10. 1 45. 4	14. 3 13. 2 41. 9	13.7 11.3 44.2	11.5 44.7	11.7 34.0	12, 8	18.7 10.5 45.1	18. 7 10. 5 45. 1
22, 3 16, 0	27. 4 29. 7 17. 0 21. 2 65. 1	33. 1 18. 0	26, 7 34, 0 17, 8 23, 3 55, 2	15. 7 19. 4	32.6 16.6 21.3	32.7 16.8 22.0	20. 5 14. 5	15. 8 19. 3	30. 3 15. 9 19. 9	16. 0 20. 1	35. 3 20. 8 25. 6	33. 8 20. 9 25. 8	21.0 26.5	20. 0 15. 0	18, 5 20, 4	18. 4 22. 3	28. 3 18. 7 22. 4
5. 9 3. 8 3. 5	9. 9 6. 6 5. 6 8. 9 12. 1	6.0 4.8 8.3	8. 5 5. 8 5. 0 8. 3 10. 1	6. 1 7. 6 9. 9	8.3	5.4 7.0 8.4	3.1 2.6	8.8 5.5 4.2 8.1 10.8	3.7	4.8 3.7 7.7	6. 5 4. 8 8. 6	4. 1 6. 5		2.4	11. 1 6. 5 3. 0 11. 0 12. 7	3, 0 9. 8	6. 1 3. 6 9. 6
9. 4	29. 5 24. 8 10. 0 7. 6 3. 3	23. 9 10. 6 10. 2	25. 9 24. 1 10. 5 11. 1 3. 7	25. 0	24. 5 9. 8 10. 4	23, 8 10, 0 11, 4	9. 3	7.8	22.0 9.5 9.8	21. 7 9. 3 10. 9	9. 0	23. 2 9. 7	23, 2 9, 9	5. 5	30. 3 20. 1 5. 8 10. 1 3. 0	19.8 6.8 10.3	19. 8 6. 8 10. 7
	7. 2 6. 5 15. 9 19. 0 20. 4	6. 0 14. 4 18. 7	8.6 5.8 14.3 18.7 21.2	5. 1 13. 0 20. 0	5. 5 11. 7 18. 3	4.5 11.9 18.3		4. 8 4. 3 11. 7 15. 9 16. 3	5. 1 10. 9 14. 4	3. 4 11. 1 14. 4	6. 0 20. 0	6.3	6. 0 19. 1 17. 3		5. 0 4. 0 11. 9 14. 4 18. 8	3. 2 11. 3 14. 7	4.7 11.5 14.7
5. 4 58. 6 33. 0	11. 9 6. 7 66. 4 41. 6	6. 8 67. 6	14. 0 7. 5 69. 0 42. 8	7. 0 59. 0	6. 7 56. 4	7. 4 57. 0	45. 0	63. 4	6. 7 58. 4	7.7 58.4	13. 8 9. 1 76. 2 46. 8	8. 9 78. 6	9.3 78.2	5.0 50.0		6.6	7. 1 75. 3
	18, 5 30, 0 48, 9 56, 5	21. 9 44. 5	20. 8 21. 6 44. 6 70. 2	30. 7 39. 8	20. 4 23. 9 37. 3 66. 5	36. 8		17. 7 29. 9 49. 6 54. 7	20, 2 42, 8	19.9 41.5	2 14. 8	27. 5 2 15. 0	27. 0 2 15. 0		17.7 31.3 41.9 51.4	24. 8 33. 0	24. 6 32. 8

Per pound.

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n, Ala,

TABLE 5.—AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTI.

CLES C

Colum

July Jun 15, 15 1921. 192

Cts. Ct 36. 8 34 31. 8 29 28. 5 26 22. 8 20 13. 8 13

10. 6 6. 8 82. 5 34. 6 3 18. 2 30. 3 2 40. 5 353. 0 6

2 Per I

A VERAUE		F	Chica	go, Ill		Ch	neinn	ati, O	hio.	CI	evela	nd, ()	hio.
Article.	Unit.	July	15—	June		July	15—		July	July	15—	June	e Ju
with the second state of the	SETAR Sense selection	1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.	1913	1921	15,	. 192
Sirloin steak	do	Cts. 24. 2 21. 3 20. 2 15. 9 11. 3	38. 4 31. 8 29. 5 19. 1	37.7 29.5 28.9 19.3	38.3 30.1 29.1	Cts. 23. 8 21. 3 19. 1 15. 2 11. 6	Cts. 35. 5 32. 7 29. 1 18. 9 13. 4	Cts. 34. 9 31. 8 27. 9 18. 5 13. 3	Cts. 35. 2 32. 3 28. 2 18. 3 13. 2	Cts. 26. 0 23. 0 20. 0 17. 5	Cts. 38. 9 33. 0 26. 6 19. 9 11. 5	Cts. 35. 9 29. 16 24. 19. 10.	9 37 7 31 8 25 2 19
Pork chopsBaconHamLamb, leg ofHens	do do	32. 7 32. 3 20. 2	52. 0 51. 7 34. 3	46. 4 51. 7 36. 8	47 9	26. 7 29. 7 15. 7	36. 7 53. 0	34. 3 54. 3 37. 0	35. 2 54. 2 33. 9	30. 1 38. 0 20. 7	43. 2 53. 2	2 39. 1 2 52. 4 9 35. 0	1 39 4 51 0 35
Falmon, canned, red Milk, fresh Milk, evaporated Butter Dleomargarine	Quart. 15-16 oz. can. Pounddo	8. 0 32. 3	35, 5 14, 0 12, 6 45, 6 24 4	32. 2 12. 0 9. 9 41. 3 23. 3	32. 6 12. 0 9. 9 42. 1 23. 5	8.0	13. 2 46. 0 28. 1	12. 0 10. 2 41. 1 28. 0	12. 0 10. 0 42. 4	8. 0 35. 2	12.8	30.3 11.6 10.3 45.8	5 30 0 11 2 10 8 46
Nut margarine	dododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododod	25. 0 15. 1 25. 3	23. 5 34. 6 15. 6 20. 5 41. 8	22. 9 33. 3 16. 2 22. 1 34. 5	22. 8 34. 1 16. 5 22. 1 35. 4	21. 0 14. 2 22. 4	25, 5 32, 7 14, 0 19, 8 35, 9	27. 2 31. 4 15. 0 21. 2 28. 6	27. 2 32. 6 15. 0 21. 8 29. 8	23. 0 16. 5 29. 8	26 6 26. 9 17. 4 20. 9 43. 3	29.4	4 30, 5 17, 5 21
Bread	Pounddododododododos-oz. pkg	6. 1 2. 9 2. 8	9.8 5.3 5.9 9.1 11.1	9.7 4.8 5.1 7.9 9.5	9.7 4.8 5.2 8.0	4. 8 3. 3 2. 7	9. 4 5. 9 3. 5 10. 2	8.4 5.3 2.8 8.4	2.9	5. 5 3. 2 2. 7	6. 0 4. 7 10. 2	7.9 5.3 3.3 8.4	9 7. 3 5. 5 3. 4 8.
ream of Wheat	28-oz. pk Pounddododo	8. 7	27.9 18.8 8.9 7.6 3.6	24.9 18.2 10.1 10.5 3.6	24.8 18.3 10.0 11.1 3.9		29.7 18.8 8.6 6.5 4.3	16. 9 9. 3 11. 3	25. 0 16. 8 9. 4 11. 2	8. 5	28. 5 21. 2 8. 3 6. 9	20. 1 9. 1 11. 1	1 19.
onions abbage eans, baked orn, canned eas, canned	do No. 2 can		5. 0 6. 3 14. 3 14. 7	7.3 5.0 12.4 14.5	6.6 5.0 12.6 14.4		5. 5 5. 8 13. 2 15. 1 16. 5	8. 0 5. 0 11. 6 14. 2 17. 1	6. 2 4. 7 12. 0 14. 0 16. 9		5. 4 5. 7 13. 4 17. 6 17. 5	7. 5 5. 8 12. 1 15. 9 17. 8	2 6. 3 4. 1 12. 3 15. 8 17.
omatoes, canned ogar, granulated ea	do Pound do	5. 1 53. 3 30. 7	11. 9 6. 4 64. 2 33. 1	14. 1 6. 7 63. 1 34. 1	7. 2 63. 9	5. 2 60. 0 25. 6	6. 9 69. 2	14. 1 7. 0 69. 1 31. 5	14. 0 7. 5 69. 2 31. 4	50. 0	12. 3 6. 0 67. 1 35. 9	7.1 65.2	2 66
runesaisinsananas.					21. 0 24. 3 36. 3 59. 1		22. 5 30. 3 42. 8 49. 1	22. 1 37. 5	36. 7		29. 4 49. 7	19. 3 22. 7 45. 2 60. 3	2 43

<sup>&</sup>lt;sup>1</sup> The steak for which prices are here quoted is called "rump" in this city, but in most of the other citie netuded in this report it would be known as "sirloin" steak.

THE TAX OF SALE AND S

[504]

#### RETAIL PRICES OF FOOD.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued.

-	lumb	119				1000	Y. I								1			
Co	Ohio.			Dallas	s, Tex	•	1	enve	r, Col	0.	D	etroi	t, Mie	h.	Fa	H Riv	ver, Ma	ISS.
July	June	July	July	15—	June	July	July	15—	June	July	July	15—	June	July	July	15—	June	July
15, 1921.	15, 192 <b>2</b> .	15, 1922.	1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922.	1922.	1913	1921	15, 1922.	15, 1922.
Cts. 36. 8 31. 8 28. 5 22. 8 13. 8	29. 7 26. 9 20. 6	30. 9 27. 4 21. 3	22. 8 20. 8 19. 7 16. 3	36. 1 34. 6 29. 6 23. 7	35. 0 29. 3 22. 7	37. 2 35. 0 28. 2	Cts. 25. 3 23. 2 17. 8 16. 2 9. 6	34.0	Cts. 32. 1 27. 7 24. 2 17. 8 9. 8	32.4	20. 2 19. 8	39. 8 32. 4 28. 7	36. 9 29. 4 27. 4	38. 3 30. 5	28. 0 24. 0	156. 2 44. 1 29. 2	20. 2	42. 2 28. 0 21. 1
39. 5 52. 7	51. 7 38. 8	37. 5 54. 4 35. 5	22. 0 38. 0 31. 1 22. 0 17. 8	50. 5 53. 8 39. 0	55. 4 42. 0	40, 8	31. 0 33. 3 17. 8	47. 7 56. 9 32. 3	32, 5 44, 8 56, 1 35, 9 32, 9	44. 1 56. 1 36. 9	20, 6 24, 5 28, 0 17, 6 21, 6	41. 3 56. 6 36. 0	56. 1 40. 6	40.6 59.4 38.0	26. 2 32. 7 21. 0	40. 1 52. 4 36. 6		39. 4 54. 3 40. 3
12.0 14.5 47.7	32. 1 11. 0 10. 0 42. 5 24. 7	11. 0 10. 3	36.0	14.7	12. 0 12. 7 43. 2	12. 2	8. 4 36. 4	38. 9 10. 8 13. 9 43. 6 31. 3	35. 6 9. 8 10. 4 40. 0 28. 8	TL. U	7. 9	36. 2 13. 0 13. 4 46. 8 28. 4	12. L	A. S. C.	00. L	35. 7 13. 0 14. 9 43. 9 31. 0	31. 5 13. 0 12. 1 45. 1 28. 5	13. 0 12. 1 45. 4
25. 9 13. 1 20. 8	24. 4 28. 7 14. 8 22. 2 26. 7	15. 0 22. 2	20. 0 16. 8	20.8 19.5	31. 1 20. 7 21. 4	29. 2 31. 7 31. 0 21. 5 33. 4	26. 1 16. 3	27. 6 30. 8 17. 7 22. 0 39. 6	28. 2 33. 3 18. 8 24. 5 32. 1	33. 5 18. 9 24. 9	20. 7 16. 3	26. 4 29. 1 16. 5 20. 1 43. 5	25. 1 29. 5 16. 9 21. 7 37. 1	30.6 16.7 22.0	23. 4 15. 2	15. 1 21. 5	16. 5	22.0
10. 3 5. 5 3. 7 10. 4 11. 5	8. 1 4. 9 3. 1 8. 9 9. 6	8. 1 4. 8 2. 9 9. 1 9. 4	5. 4 3. 3 2. 6	5. 2	9. 1 4. 9 3. 4 10. 6 11. 4		5. 4 2. 6 2. 4	4. 0 3. 3 9. 4	4. 0 3. 2 9. 2	8. 4 4. 1 3. 1 9. 1 10. 3	5. 6 3. 2 2. 8	9. 4 5. 8 4. 8 10. 5 11. 1		4.3	3. 4	6.2	9. 3 5. 6 6. 1 9. 6 10. 5	5. 5 6. 0 9. 4
20.8	19. 9 10. 8 11. 9	19. 8 10. 8	9. 3	21.6	21. 2 10. 9 10. 7	21. 3	8, 6	19. 7	9.9	21. 1. 9. 9	8.4	6. 4	18. 9 9. 7 10. 9	19.0 9.6 11.9		7.7	27. 7 24. 0 10. 1 10. 1 2. 8	10. 0
	9. 6 5. 9 13. 3 13. 2 14. 9			5. 9 5. 5 16. 4 17. 7 22. 2	17.7	6. 5		5. 6 4. 9 16. 3 15. 1 17. 3	14.9	4.6 14.5 14.9		6.3 7.9 12.2 15.7 17.0	7. 5 5. 1 11. 8 14. 8 16. 5	3.8 12.2 14.7		6. 2 4. 3 14. 2 16. 2 18. 5	9. 0 5. 9 13. 3 15. 7 17. 8	4.5
6. 8 82. 5	14. 4 7. 1 78. 4 34. 7	14. 5 7. 7 78. 4 35. 2	5. 7 66. 7 36. 7	12. 9 7. 5 87. 5 37. 7	7.4	14. 5 8. 1 90. 6 41. 4	5. 6 52. 8 29. 4	12. 2 7. 9 71. 4 36. 1	13. 3 7. 9 69. 6 35. 7	13. 4 8. 2 69. 8 36. 0	5. 3 43. 3 29. 3	11. 3 6. 5 63. 3 35. 1	13. 4 6. 8 61. 3 35. 7	7.7 61.3		56.0	13. 4 6. 9 54. 7 37. 9	13. 6 7. 6 54. 3 38. 0
30. 3 40. 5	21. 1 23. 0 38. 5 63. 5	37.5		33. 9 33. 6	23. 5 26. 2 35. 6 69. 3	30. U		32. 5 213. 8	21. 6 25. 3 212. 6 59. 8	25.4 212.6		00.0	33.9	23.2 33.8		18. 0 29. 2 211. 4 50. 2	24. 0 2 10. 4	23. 9

<sup>2</sup> Per pound.

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July 15, 1922.

Cts. 37.5 31.1 25.9 19.9 10.9 36.2 39.6 51.7 35.6 36.8 30.9 110.0 246.3 27.7 21.8 55.6

#### MONTHLY LABOR REVIEW.

### TABLE 5.—AVERAGE RETAIL PRICES OF THE PRINCIPAL ART

CLES

Kans

July 15

1913 19

Cts. Cts. 24.7 37 21.8 33 17.8 27 14.9 17 11.7 10

8.7 1. 35.4 4.

6.1 3.0 2.6 .... 10

.... 3 2 8.7

1.8

.... 1 .... 1

5.7 54.0 27.8

coald revisit fact	. November	Hou	ston,	Tex.	Ind	lianaj	polis,	ind.	Jac	ekson	ville,	Fla
Article.	Unit.	July		July	July	15—	June	July	July	15—	June	P In
of the contract of the contrac	100	15, 1921.	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922.	7.1
Sirloin steak	Pounddododododo	Cts. 32. 9 31. 4 26. 5 22. 4 17. 9	Cts. 32. 9 32. 0 25. 2 20. 8 16. 2	Cts. 31. 3 31. 0 25. 6 21. 2 15. 5	Cts. 25 5 24. 7 18. 2 . 16. 4 12. 1	Cts. 36. 9 35. 8 26. 3 21. 6 13. 8	Cts. 36. 6 34. 3 26. 6 21. 6 14. 1	Cts. 36. 6 34. 6 26. 5 22. 0 13. 4	Cts. 26, 0 22, 0 23, 3 14, 0 10, 3	Cts 36. 9 32. 3 27. 3 19. 3 11. 3	Cts 35. ( 30. 3 26. 3 17. 9 10. 3	0 33 5 30 2 25 9 17 3 10
Pork chops. Bacon. Ham Lamb, leg of. Hens.	do	34. 1 53. 2 51. 9 34. 0 30. 6	30, 9 49, 4 52, 0 38, 8 30, 0	29. 9 49. 0 52. 1 37. 5 30. 2	22. 0 ,30. 7 32. 8 21. 7 21. 0	32, 9 42, 2 55, 4 32, 1 35, 0	32, 5 39, 1 56, 4 40, 0 34, 6	32. 1 40. 2 55. 3 39. 3 34. 0	22. 3 27. 8 28. 7 19. 3 22. 8	34. 2 41. 4 50. 0 37. 6 35. 2	34.1 36.1 50.0 37.1 34.0	1 32 7 38 0 50 5 37 0 33
Salmon, canned, red	I	32. 8	31. 5 15. 3 11. 4 43. 8 31. 3	31. 5 15. 3 11. 5 44. 0 31. 3	8, 0 33, 2	18.6 12.0 13.3 44.9 27.8	38, 5 10, 0 10, 0 40, 9 26, 8	38. 4 10. 0 9. 9 41. 4 26. 8	12, 4 38, 6	9 (98) 1	30. 8 14. 7 11. 3 45. 7 27. 7	/ 45
Nut margarine	do	261 2	28.6 17.9 24.0	28, 8 29, 2 17, 9 23, 9 30, 3	21.3 15.2	29. 6 13. 3	26. 6 30. 8 14. 5 21. 9 27. 3	31.4	22, 5 15, 5	26.0	26.7 28.8 18.0 22.4 34.6	29
Bread	Pound do do	8.7 6.0 4.1 10.3	3. 5 8. 7	5. 2 3. 6 8. 4	3.2	3.3	4.8 2.9 7.8	2.9 7.5		3. 6 10. 9	6.1 3.0 9.3	6
Corn flakes	28-oz. pkg Pounddododo	29.5 20.8 6.9 8.6 4.1	24. 8 20. 1 8. 1 9. 9 3. 9	24.9 20.1 8.0 9.9 4.0	9. 2	18. 0 19. 8 9. 2 7. 2 3. 7	25, 9 19, 1 9, 9 11, 9 4, 0	25, 9 19, 1 9, 8 12, 8 3, 9	6, 6	30.1 21.7 7.5 8.9 4.6	27. 4 18. 6 9. 2 11. 2 4. 4	18 9
Onions	do No. 2 can dodo	4.6 5.4 12.8 12.6 17.9	7.1 4.9 14.0	7.0 5.5 14.2 14.2 18.8	2 35	6. 4 13. 7 14. 3	5. 1 13. 0 14. 3	13 11		13. 1 16. 9	11.8	5 12 15
Comatoes, cannedugar, granulated Cea	Pounddo	10. 8 6. 8 71. 6 29. 7	13. 9 6. 9 73. 9 31. 3	7.9	5. 8 60. 0 30. 0	7.4	74 9	8.3	5. 9		7.3 86.5	8
Prunes	do Dozen	18, 1 32, 2 34, 7 47, 3	23. 4 24. 4 30. 0 52. 7	22. 9 26. 2 29. 2 56. 5		20, 5 33, 1 31, 3 50, 6	20. 8 25. 9 31. 0 61. 9	21. 2 24. 9 30. 3 63. 1		17.3 33.8 28.1 67.5	21. 5 25. 6 29. 4 60. 3	2 2 2

<sup>&</sup>lt;sup>1</sup> The steak for which prices are here quoted is called "sirloin" in this city, but in most of the other cities included in this report it would be known as "porterhouse" steak.

#### RETAIL PRICES OF FOOD.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued.

ART

, Fla.

le July 15, 1922

ties

Ka	nsas	City,	Mo.	Lit	tle R	ock,	Ark.	Los	Ang	eles, C	Calif.	L	ouisv	ille, E	Cy.	Manchester, N. H.				
July	15-		July	July	15—		July	July	7 15—	June	July	July	y 15—		July	July	15—	June		
913	1921	1922.	15, 1922. 1922.	1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922	
4.7 1.8 7.8	14.0	37. 4 32. 5 25. 2 17. 9	31. 9 25. 2 18. 2	26.7 20.0 20.0 16.7	35. 0 31. 9 28. 7 20. 6	34.1 31.8 27.0 20.1	34.3 32.2 27.5 20.5	24. 0 21. 0 19. 6 15. 8	35. 9 30. 0 29. 3 17. 0	34. 4 28. 5 28. 2 17. 9	34. 3 28. 4 28. 0 17. 4	23.6 20.4 18.3 15.6	33. 4 31. 7 25. 5 20. 1	Cts. 32.3 29.4 23.8 18.2 13.0	31.7 28.9 23.3 17.6	Cts. 136. 2 29. 7 20. 7 17. 2	1 57.1 49. 2 26. 8	21.9	1 54. 45. 27. 22.	
0.6 3.8 3.5	50. 0 53. 1 32. 1	46.1 55.0 34.3	31. 0 45. 3 55. 3 32. 0 30. 8	37. 5 30. 0 20. 8	48. 9 54. 2 36. 4	42, 2 54, 4 39, 3	41.9 54.7 35.6	34.0 36.7 18.8	54. 4 61. 7 31. 4	52. 0 62. 7 32. 6	51. 6 62. 7 33. 4	29. 4 30. 0 18. 3	39. 8 50. 2 30. 0	35.5 47.5 36.0	37. 4 47. 5 33. 3	20. 7 24. 0 29. 2 21. 8 24. 3	36.8 49.0 38.3	$\frac{49.5}{37.3}$	33. 49. 38.	
	14.7 $14.3$	12.0 10.8	31.8 12.0 10.9 44.6 27.0	10.0	$15.0 \\ 14.7$	13.0 11.7	11.7	10.0	14.3 11.6	40. 9 14. 0 9. 9 51. 2 29. 7	14.0 9.9	8. 8 35. 3	11.0 13.9 49.9	30. 0 9. 0 10. 9 44. 8 26. 9	9.3 $10.3$ $44.7$	38.1	15.0		12. 12. 49.	
. 2	26. 6 30. 5 17. 7 22. 5 35. 5	33. 2 17. 7	24.3	23.3	28, 0 29, 2 18, 5 20, 5 35, 7	27.8 31.6 20.0 23.1 31.9	32.0 20.1 23.0	19. 5 18, 3	33.3 16.7 21.0	27. 5 34. 8 18. 4 23. 4 35. 8	23.9	21. 7 15. 4	15.4 21.5	26. 5 27. 7 14. 9 22. 1 25. 7	14. 9 22. 4	21. 0 16. 0	23.11	32.1 $17.3$ $22.6$	32. 17. 22.	
	9. 9 5. 4 4. 9 10. 4 13. 0	7.8 4.9 4.3 8.1 9.9	4.8	6.0 3.5 2.4	9.5 5.9 3.1 11.7 13.1	8. 4 5. 5 2. 8 10. 1 9. 8	5.3 2.8	6. 0 3. 6 3. 2	9. 2 5. 5 5. 1 10. 6 12. 6	9. 1 5. 1 4. 3 10. 1 9. 9	9. 0 4. 9 4. 2 10. 2 10. 0	3.5 2.3	8.9 5.6 2.6 10.2 11.9	8.8 5.4 2.5 8.2 9.6	8.8 5.4 2.5 8.2 9.4	6. 1 3. 4 3. 4	8.6 6.4 6.0 9.9 12.9	8. 0 5. 7 4. 6 9. 0 10. 0	5. 4. 9.	
	22. 6 8. 6	26. 4 22. 1 9. 3 11. 7 3. 6	21.8 9.6 12.8			26. 5 22. 3 8. 6 11. 4 3. 5	26. 5 22. 3 8. 4 11. 8 3. 4	7.7		24. 8 16. 6 9. 6 9. 5 3. 2	16.6 9.8 9.8		29.7 20.5 8.4 6.3 2.6	25. 1 17. 9 9. 0 10. 5 3. 8	24.7 17.9 9.1 11.9 3.0		29.7 25.6 8.6 7.7 3.3	26. 4 25. 0 9: 2 11. 1 2. 0	24. 9. 11.	
	13.0	8. 3 4. 6 14. 2 13. 3 15. 3	8. 0 3. 7 14. 3 13. 4 15. 5		5.7 5.6 13.7 14.8 18.2	9.7 5.0 13.5 15.3 19.5	5. 9 13. 4 15. 3		16.8	6. 0 4. 1 13. 8 17. 1 19. 6	5. 1 4. 0 14. 2 16. 8 19. 3	• • • •	15.8	6. 1 4. 4 11. 9 15. 2 16. 4	4.5 3.6 12.5 15.0 16.4		19.0	7.5 5.9 14.9 18.4 22.1	5. 14. 18.	
7 0 7	7.3	14.3 7.4 78.1 37.1	14.3 7.8 78.6 37.3	5.8	91. 2	7.8 92.5	8. 1 92. 3	5. 5 54. 5	7. 1 68. 9	7. 3 72. 3 38. 2	7.8	5. 2 62. 5	$\frac{7.0}{77.3}$	13.6 7.1 76.2 34.9	7.6 76.2	5.3	7.5 58.4	57.1	7. 57.	
	3.5 13.5	21.6 27.2 11.8 59.9	26. 9 11.8	4	34.0	21. 5 24. 6 9.7 67. 8	25. 4		29. 5 12.8	20. 0 24. 2 10.8 40. 0	24.3 10.8		29. 1 38. 0	19. 5 24. 3 36. 5 46. 3	24. 1 34. 5		31.6	19. 9 22. 2 4 10.1 67. 4	22.1 10.	

<sup>2</sup> No. 21 can.

<sup>8</sup> No. 3 can.

<sup>4</sup> Per pound.

#### MONTHLY LABOR REVIEW.

TABLE 5.—AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTI

CLES (

Mobil

July July 15, 12, 1921.

Cts. C 32.7 3 33.0 3 28.0 2 21.7 2 11.7 16 46.8 448.3 44 48.3 44 48.3 44 48.3 44 48.3 7 7.0 3 16.5 11 16.2 4 430.7 26 26.2 3 16.8 16 19.2 2 40.5 3 12.6 9 12.6 9 12.6 9 12.6 9 12.6 9 12.6 9 12.6 9 13.8 1 12.6 9 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13.8 1 13

M. Z. advantande	M ,ettly tim A	Me	emph	is, Te	nn.	Mi	lwaul	kee, W	Min	Minneapolis, Minn.				
Article.	Unit.	July	15-	June	July	July	15—	June	July	July 15—		June	Int	
and and py end to		1913	1921		15, 1922.	1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922,	15, 1922,	
Sirloin steak	Pounddododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	Cts. 22. 9 19. 7 20. 4 15. 9 12. 2	Cts. 32. 4 30. 0 25. 8 18. 7 13. 8	Cts. 31. 7 28. 0 24. 1 16. 8 12. 2	Cts. 32. 3 28. 4 24. 5 17. 3 12. 5	Cts. 23, 0 21, 2 18, 8 16, 6 11, 6	Cts. 39. 5 35. 0 28. 9 21. 9 11. 7	Cts. 37. 5 33. 2 27. 0 21. 3 12. 4	Cts. 38. 2 33. 7 27. 1 21. 8 12. 3	Cts. 24. 2 22. 2 20. 5 17. 3 10. 3	Cts. 34. 7 30. 8 25. 4 19. 0 8. 6	Cts. 33. 1 30. 2 25. 0 19. 2 9. 1	Cts. 33. 1 30. 4 25. 1 19. 5 9. 1	
Bacon	dodododododododododododo.	20. 0 31. 4 30. 7 21. 2 20. 0	29. 9 42. 8 51. 2 34. 3 31. 5	28. 9 38. 1 51. 7 36. 8 31. 5	28. 8 38. 2 51. 9 36. 6 27. 0	20, 0 28, 6 29, 0 20, 5 20, 6	33. 5 45. 4 49. 3 38. 0 35. 1	32. 4 42. 8 49. 1 39. 3 33. 5	34. 8 42. 7 50. 1 38. 0	19.3 27.7 30.0 16.5	31. 8 45. 7 51. 8 32. 1	33. 2 43. 9 52. 8 33. 8	33. 3 44. 3 52. 5 33. 2	
Milk, fresh. Milk, evaporated Butter.	Quart. 15–16 oz. can. Pound.	10.0	39. 3 17. 3 14. 8 45. 4	36. 3 15. 0 11. 8 41. 9	36.6 15.0 11.2 42.5	7.0	42. 1 9. 0 13. 8 45. 5	32. 1 9. 0 10. 4 40. 9	32. 0 9. 0 10. 5 41. 8	7.0	43. 8 10. 0 14. 4 42. 5	38.6 10.0 11.4 40.7	39.3 10.0 11.6	
Cheese Lard Crisco Eggs, strictly fresh	dodododododododo	20. 0 15. 9	26, 7 25, 5 15, 8 19, 3	28. 8 28. 6 16. 1 22. 3	27. 0 29. 4 15. 9 21. 7 30. 1	21. 0 15. 6 23. 8	24. 5 25. 4 17. 1 21. 0 35. 1	23. 7 28. 0 17. 4 21. 8 30. 0	23. 7 28. 5 17. 5 22. 0 29. 3	20. 8 15. 4	25. 2 27. 6 16. 0 21. 7 36. 6	24. 6 29. 4 16. 7 23. 3 29. 8	24.8 29.7 16.8 23.5 29.6	
Floar Corn meal Rolled oats Corn flakes	Pounddododododo	6. 0 3. 5 2. 0	10. 3 5. 9 2. 9 10. 7	9. 2 5. 5 2. 7 9. 4 9. 8	9.6 5.3 2.7 9.1	5. 6 3. 1 3. 0	9. 4 5. 6 4. 6 6. 9	9.3 5.0 3.7 7.2	9.3 4.8 3.8 6.7.	5.6 3.0 2.4	9.6 5.9 4.7 8.5	9. 0 5. 1 3. 8 8. 3	9.0 5.3 4.0 7.8	
Cream of Wheat Macaroni Rice Beans, navy Potatoes	28-oz. pkg Pounddododo	8.0	29. 2 17. 1 6. 5 7. 4	26. 4 17. 3 8. 6 11. 0	26.5 17.2 8.3 11.2	9.0	29. 1 18. 8 9. 5 7. 1	25.3 17.4 10.0 10.6	25. 0 17. 8 10. 0 11. 5	9. 1	30, 0 17, 6 8, 6 8, 3	25. 4 18. 0 9. 3 9. 9	25.2 17.8 9.3 10.9	
Onions. Cabbage. Beans, baked. Corn, canned. Peas, canned.	do		4. 3 5. 4 14. 8 14. 1 15. 9	6. 8 4. 0 13. 6 14. 7 18. 9	4.9 4.4 13.2 14.4		6. 6 7. 2 12. 5 15. 3	7. 8 5. 4 11. 3 14. 7 15. 6	6.6 4.3 11.4 14.8		6. 0 4. 1 15. 9 13. 7 15. 4	8. 6 5. 7 14. 7 13. 3 15. 6	6.8 2.9 15.3 13.4 15.9	
Sugar, granulated Coffee	Pound	5. 7 63. 8 27. 5	10. 7 1 7. 3 88. 4 34. 8	13. 7 7. 0 86. 2 37. 6	13.6 7.7 89.8 37.5	5, 5 50, 0 27, 5	12. 2 6. 7 68. 1 32. 1	14.7 1 6.8 69.0 6	14.6 7.4 69.4	1	14.3 7.3	15.2 1 7.3 62 7 6	15.1 7.8 64.2	
Prunes	do Dozendo	2	20. 6 34. 8 38. 2 51. 9	21. 2 26. 3 33. 6 70. 6	20.8 26.3 34.5		19.0	21. 4 2 24. 5 2 9. 8 8 57. 9 6	21.2	1	19.3	21.4 2	22.1	

<sup>1</sup> Whole.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued.

RTI

inn.

July 15, 1922.

Cts. 833.849 9.1 9.1 9.1 33.3 344.3 329.1 310.6 61142.26.1 24.8 7.8 9.0 9.5 3.5 5.7 8.2 9.6 62.5 3.4 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 8.3 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7 9 5.7

															-	
Ala.	N	ewarl	k, N.	J.	New	Hav	en, C	onn.	Ne	w Orl	eans,	La.	Ne	w Yo	ork, N.	Y.
July	IV	1116	June	July	July	15—	June	July	July	15—	June	July	July 15-		June	July
15, 1922.	1913	1921	1922.	1922.	1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.
30.0 25.0 20.6	28.4 28.0 21.2	43.8 42.5 34.1	41.2 39.6 32.8	41.6 33.9	33.2 30.0 24.8 20.0	48.7 41.4 34.8 25.1	46.8 38.5 34.1 23.8	49.1 40.4 36.0 24.8	22.5 19.5 19.4 14.5	31.5 29.1 28.3 19.5	32.6 30.3 27.7 19.7	33.4 30.0 28.7 20.6	26.1 22.6 16.4	42.5 36.0 21.9	35.8 21.3	41.9 35.8 21.7
41.6 49.2 32.1	25.8 122.0 21.2	37.9 134.2 38.0	37.1 135.0 38.1	37.5 134.8 39.9	29.3 34.0 21.4	45.4 56.5 40.0	41.1 59.1 41.4	41.0 59.6 42.3	31.3 30.0 21.3	46.3 49.7 37.5	42.2 51.5 39.9	43.2 50.8 41.2	26.4 30.0 18.1	40.8 54.4 35.4	57.7 35.0	38.5 57.0 36.2
15.0 11.3 47.7		15.0 12.3 48.8	14.3 10.2 44.3	10.2 46.1	9.0	14.0 13.2 45.0	14.0 11.0 44.4	10.9 44.6	9.3	16.5 13.1 45.3	14.0 10.5 45.4	14.0 10.4 46.2	34.4	12.3 47.6	10.0 44.4	14.0 10.1 45.0
28.1 17.3 23.1	24.2 16.0	32.2 $15.6$ $19.0$	33.3 16.6 21.2	17.2 21.7	22.0 15.7	31.1 16.2 19.4	32.1 16.4 20.6	31.9 16.6 21.2	22.0 15.1	28.9 16.5 20.6	30.9 16.5 23.7	31.6 16.6 23.4	19.4 16.2	17.3 19.7	25.5 32.9 17.6 21.2 42.6	32.7 17.6 21.9
5.4 3.1 9.3	5.6 3.7 3.6	9.4 5.9 6.5 8.9 10.4	5.4 6.0	8.6 5.4 6.1 7.5 8.7	3.3	6.0 6.4 9.9	5.3 5.9 9.1	6.0	2.7	6.5	5.8 2.9 8.9	5.8 3.0 8.8	3.3		9.7 5.5 5.4 8.0 8.9	5.3 7.8
20.3 8.5 12.3	9.0	21.9 8.2 7.6	21.4 8.9 10.3	21.4 9.1 11.2	9.3	22.0	9.8 10.7	22.0 9.8 11.1	7.4	9.9 7.5 7.0	9.8 8.8 10.5	9.9 9.1 11.0	8.0	21.9 8.5 9.1	21.0 9.1 10.7	20.6 9.0 11.2
5.5 13.4 15.5		5. 2 12. 1 15. 7	5.3 11.1 15.4	11.2 15.1		5.5 14.2 19.2	5.2 12.3 18.2	4.3 12.3 18.3		6.4 13.8 13.5	3.2 12.7 13.4	3.3 12.7 13.0		4.2 12.9 14.9	5.1 11.7 13.6	3.5 11.9 13.7
7.9 75.1	53.8	6.5 48.8	6.3 48.6	7.1 48.5	5.3 55.0	6.8 54.5	6.7 56.3	7.6 56.4	5. 2 62. 1	6.6	6.7	7.1	4.9	53.0	49.5	7.0 48.4
26.0 25.7		29.8 43.3	21.3 40.6	20.9 37.5		29. 2 38. 1	22.7 35.4	22.3 35.0		30.7	25.3 22.0	25.7 21.0		30.1 41.4	21.8 41.8	21.9 40.7
	Cts. 30.8 30.0 25.0 20.6 16.4 33.1 35.6 31.8 31.3 32.2 32.1 35.6 28.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.1 32.2 32.2	July 15, 1913  Cts. 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June   July   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   1	July   15-   June   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15,   15	July   15.   June   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15.   15

1 No. 3 can.

\* Per pound.

#### MONTHLY LABOR REVIEW.

TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL ART

CLES OF

Philade

July 15-

1913 1921

Cts. Cts 132.0 149. 27.5 41. 22.7 34. 18.2 19. 12.7 10.

22.2 36. 27.9 37. 32.7 57. 21.0 40. 23.3 44.

30. 8.0 11. 13. 39.2 51. 29.

27. 25. 0 32. 15. 3 15. 19. 30. 4 43. 4.8 8. 3. 2 6. 2. 7 4. .... 9.

9.8 9. 2.1 3.

5.0 6 54.0 61 25.0 30

	in Orleans, La	No	rfolk, V	Va.	1	Omaha	Peoria, Ill.					
Article.	Unit.	July	June	July	July 15—		June	July	July 15,	June		
The rate that the rate	mt 2501 1001	15, 1921.	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.	1921.	15, 1922.	15, 1922.	
Sirloin steak	do do	Cts. 42.9 37.1 35.2 21.8 14.4	Cts. 38. 1 32. 0 30. 1 18. 5 12. 9	Cts. 38. 3 31. 8 30. 3 19. 3 12. 5	22. 0 18. 0 16. 2		Cts. 35. 8 33. 1 24. 9 19. 1 10. 5	Cts. 36.0 33.6 25.3 19.6 10.6	Cts. 33. 1 32. 7 25. 0 21. 5 14. 3	24. 2 20. 1	32.5 24.1 20.1	
Pork chops	do	32. 4 41. 7 43. 0 39. 4 41. 4	32, 3 36, 3 45, 0 40, 9 38, 0	31. 2 38. 1 44. 6 37. 2 36. 4	28, 0 29, 0 17, 8	31. 8 51. 8 55. 9 32. 4 32. 4	31. 0 46. 3 55. 4 40. 8 31. 3	32. 3 46. 7 55. 8 40. 2 30. 3	30. 0 44. 5 52. 9 35. 0 33. 5	30. 1 42. 7 52. 0 35. 0 33. 1	42.7 53.0 35.0	
Salmon, canned, red Milk, fresh Milk, evaporated Butter Oleomargarine	do Quart 15-16 oz. can. Pound	33. 2 19. 0 13. 4 49. 5 30. 0	29. 4 17. 0 10. 3 46. 4 27. 0	30. 2 17. 0 10. 2 46. 9 27. 4	7.9	36, 3 12, 0 14, 3 42, 5 31, 0	33. 8 11. 0 10. 7 42. 2 28. 8	33, 8 11, 0 10, 4 42, 1 29, 2	35. 6 12. 5 14. 5 42. 9 28. 5	33. 5 10. 2 10. 9 41. 2 27. 6	10.2 10.9 41.3	
Nut margarine	do		27. 8 28. 2 17. 0 21. 0 34. 1	26. 0 28. 8 17. 0 21. 3 33. 9	22. 5 17. 6 23. 3	27. 8 29. 6 18. 4 21. 6 33. 9	28. 2 30. 0 19. 4 24. 6 29. 2	28. 0 30. 8 19. 3 24. 3 29. 8	27. 7 29. 5 16. 7 22. 3 33. 4	26. 5 30. 6 17. 3 23. 4 28. 3	39.9 17.3 23.4	
Bread	do do	9. 7 6. 1 3. 8 10. 0 12. 0	7. 9 5. 1 3. 2 8. 0 9. 5	8. 0 5. 0 3. 3 7. 9 9. 3	5. 2 2. 8 2. 3	9. 8 5. 0 4. 4 10. 6 14. 0	9. 8 4. 7 3. 5 10. 4 10. 8	9. 8 4. 6 3. 5 10. 5 10. 4	10. 2 5. 8 3. 9 11. 4 13. 0	8. 6 5. 2 3. 7 8. 8 10, 0	5.2 3.7 8.8	
Cream of Wheat	do	29. 4 19. 4 10. 1 8. 1 2. 8	25. 7 20. 0 9. 8 10. 1 3. 4	9. 7 10. 5	8.5 1.8	31. 3 20. 8 8. 0 7. 6 2. 7	26. 3 20. 5 9. 0 11. 2 3. 4	25. 8 20. 5 9. 4 12. 3 2. 9	30. 1 20. 2 8. 5 7. 1 3. 9	27. 3 20. 0 10. 3 13. 0 3. 7	20. 2 10. 6 13. 2	
OnionsCabbageBeans, bakedCorn, cannedPeas, canned	No. 2 can	4. 7 4. 2 11. 2 16. 2 20. 9	8.6 2.9 10.5 14.7 18.5	10. 5 14. 7		5. 5 4. 4 16. 8 14. 0 14. 5	8. 4 5. 3 15. 9 16. 4 16. 8	7. 5 3. 5 16. 1 16. 4 16. 8	6. 1 5. 7 13. 9 14. 3 16. 3	8. 6 6. 5 13. 1 14. 8 16. 8	5. 1 13. 3 14. 5	
Tomatoes, canned Sugar, granulated Tea Coffee	Pound	11. 0 6. 9 83. 2 40. 4	12. 9 6. 5 73. 3 35. 9	12.6 7.1 73.4 35.9	5. 7 56. 0 30. 0	11, 4 7, 3 74, 1 37, 5	14. 8 7. 3 72. 1 40. 0	14. 5 7. 9 72. 5 40. 0	11. 6 7. 4 64. 6 33. 3	15. 5 7. 6 61. 7 34. 4	15.4 8.0 61.3 34.8	
Prunes	Dozen	17. 8 31. 5 39. 0 52. 9	19. 6 23. 3 33. 6 60. 9	33. 2		20, 4 33, 3 12, 4 48, 8	20. 8 27. 5 4 10. 1 60. 8	23. 1 26. 7 10. 1 55. 8	23. 8 32. 0 4 12. 0 49. 5	22. 9 26. 3 4 10. 2 55. 0	23. 1 26. 3 4 10. 2 57. 5	

<sup>&</sup>lt;sup>1</sup> The steak for which prices are here quoted is called "sirloin" in this city, but in most of the other cities included in this report it would be known as "porterhouse" steak.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued.

ARM

1.

July 15, 1922.

ties

Phi	ladel	phia,	Pa.	Pi	ttsbu	rgh, I	a.	Port	land,	Me.	Po	ortlan	d, Or	eg.	Pr	ovide	nce, R	. I.
July	15-		July	July	15—	June	July		June		July	15—		July	July	15—	June	July
1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.	15, 1 <b>92</b> 1.	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.
Cts. 12.0 17.5 12.7 18.2 12.7	149. 4 41. 7 34. 9 19. 3	39. 0 31. 9 19. 9	149.6 41.3 33.3 20.3	24. 8 21. 8 16. 8	38.6 32.3 21.5	34. 0 30. 0 20. 7	35. 6 30. 9 20. 9	157. 7 46. 8 28. 9 18. 4	155. 2 44. 6 28. 0	156. 2 45. 3 29. 3 19. 3	21.4	30. 0 27. 0 25. 2 17. 2	30. 1 27. 2 25. 6 18. 5	30. 2 26. 9 25. 6 17. 9	139.6 31.0 24.2	49. 9 36. 4	45. 3 34. 2 24. 7	46. 1 34. 7 24. 9
2.7	36. 8 37. 9 57. 4 40. 8 44. 3	37. 8 58. 1 42. 1	59.3 39.3	31. 5 20. 8	57.3	39.8	57. 6 38. 6	52. 9 38. 1	57.6 40.1	36.7 58.5 40.7	31.3 30.8	47.3 50.2 27.9	45. 9 51. 1 33. 8	45. 6 52. 2 33. 0	23. 4 32. 3 21. 7	37. 4 58. 3 41. 7	35. 5	57. 9 43. 4
	30. 7 11. 0 13. 6 51. 3 29. 0	11.0 11.0 50.2	11. 0 10. 9 50. 5	8. 6 35. 7		45. 5	12.0 10.1 46.0	15.5 14.1 51.7	13. 0 11. 9	13. 5 11. 9 49. 9		12 4	11.8 11.5 45.5	11 3	9. 0	39. 6 15. 0 14. 1 48. 7 32. 1	31. 7 13. 0 11. 6 45. 5 29. 8	14. 0 11. 5 45. 8
	27. 3 32. 8 15. 3 19. 7 43. 4	34. 8 15. 9 20. 6	34. 7 16. 1 21. 9	24. 5 15. 5	14. 1 19. 6	31. 1 15. 2 20. 8	30. 9 15. 8 21. 6	32. 2 16. 2	31. 7 17. 4 22. 6	32.3 17.4 22.8		28. 4 29. 6 20. 9 24. 1 36. 9	33. 1 20. 0 24. 8	34. 1 20. 1 25. 3	21.7	27. 3 29. 7 16. 2 21. 5 56. 7		30. 6 16. 6
4.8	8.7 6.0 4.4 9.1 11.0	8. 7 5. 4 3. 6 8. 0 9. 5	3. 5 8. 0	2. 7	9. 4 5. 9 4. 3 10. 4 11. 6	4. 2 8. 9	8. 2 5. 2 4. 1 9. 1 9. 5	6. 1 4. 5 7. 7	3.9 6.8	4.0	5. 6 2. 9 3. 3	5. 0	4.8 3.4 10.0	3. 5 9. 4	2.8	6.5	5.8	5.6
2.1	28. 2 21. 8 9. 5 8. 0 3. 0	21.0	21. 0 10. 0 10. 0	9.2	29. 1 21. 3 9. 6 7. 1 3. 2	9.6 10.9	20. 7 10. 0 11. 8	29. 6. 23. 5 10. 0 7. 4 2. 9	23.9 10.6 10.5	23.3 10.4 10.9	8.6	6.7	17. 4 10. 2	17. 4 9. 9 9. 8	9.3	8.0	22. 5 9. 5 10. 4	9. 6 10. 8
	4. 5 4. 4 12. 7 15. 3 15. 6	4. 5 11. 8 15. 0	3.3 11.9 14.9		6. 0 5. 2 14. 2 15. 2 16. 7	4.9 12.8 14.2	4. 4 13. 4 14. 4	6. 1 17. 1	5. 1 15. 4 15. 8	5. 3 15. 3 15. 4	•••••	4. 0 4. 1 18. 4 18. 4 17. 5	6. 0 17. 3 17. 7	4. 2 17. 2 17. 7		6. 2 4. 3 14. 0 18. 2 19. 5	4. 8 12. 8 17. 3	3. 4 12. 7 17. 2
	6.6	6.4	59. 5	58.0	74.4	76. 3	13. 2 7. 7 75. 8 36. 2	219. 8 7. 0 57. 6 38. 4	222. 4 7. 1 56. 8 39. 8	<sup>2</sup> 22. 7 7. 7 56. 8 40. 0		7.7	61.9	7. 7 62. 8	5. 1 48. 3 30. 0	59.4	6. 8 60. 1	7. 5 60. 0
	28. 4 37. 1	22. 4	31.7		19.8 27.8 44.1 51.9	24. 3 42. 5	24. 0 41. 3	28. 7 412. 0	19. 3 21. 9 410. 5 75. 6	21.8		29. 4 413. 5	19. 0 24. 6 413. 7 56. 7	24. 6 413. 5		19. 8 29. 5 42. 2 58. 1	22. 9 36. 3	23. 0 35. 4

bredeg to Til

<sup>2</sup> No. 3 can. <sup>3</sup> No. 2½ can.

4 Per pound.

#### MONTHLY LABOR REVIEW.

TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL ART

CLES (

St. P

July 15

1913 19

Cts. C 27. 0 36 23. 3 32 17. 0 21 17. 0 21 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2 11. 2

21. 0 15. 0 15. 0 22. 9

5.9 3.0 2.5

10.0

....

5, 6 45, 0 30, 0

rage. Providence II. I.	Ingland, v	R	ichm	ond, V	Va.		ochest N. Y		S	t. Lo	uis, X	fo.
Article.	Unit.	July	15—	June	July 15,	July	June	July	July	15-	June	July
		1913	1921	1922.	1922.	1921.	1922.	1922.		1921	15; 1922.	15,
Sirloin steak. Round steak Rib roast Chuck roast Plate beef	do	19.3	41. 3 37. 1 31. 2 24. 6	39. 2 34. 4 30. 0 23. 0	39. 3 34. 6 30. 5	23.	37.6 33.0 27.8	38, 6 33, 6 28, 1 22, 6	14.6	35. 7 35. 1 29. 6	33.3 30.6 26.1	Cts. 34.2 5 34.2 6 30.9 1 26.6 5 19.3 8 12.4
Pork chops	do do	26. 0 19. 3 20. 0	38. 1 46. 0 41. 5 40. 0	47. 2 44. 3 37. 1	37.1 46.8 42.9 35.5	37. 4 42. 8	36, 6 33, 9 51, 4 38, 4 40, 8	38.7	19.0	30. 2	39.8 50.8 35.0	30.7 8 39.5 8 50.8 0 33.9 6 31.8
Salmon, canned, red. Milk, fresh. Milk, evaporated. Butter Oleomargarine	Quart. 15-16 oz. can. Pounddo.	10.0	33. 3 14. 0 14. 6 50. 7 31. 4	33. 5 13. 0 12. 3 52. 4 30. 2	33. 8 13. 0 12. 4 52. 3 30. 8	36. 0 12. 0 13. 7 45. 8 29. 0	11.0 11.1 44.4	40.0	8.0	35.6 13.0 12.5 46.3 28.3	10.6 9.8 45.3	3 46.4
Nut margarine. Cheese. Lard Crisco Eggs, strictly fresh.	dodododododo	22. 3 15. 0 24. 6	29. 1 29. 7 17. 3 20. 9 37. 6	28. 0 30. 8 17. 8 21. 7 33. 9	28. 2 31. 9 17. 8 22. 4 33. 6	25. 8 29. 6 16. 5 18. 4 42. 1	31. 3 16. 9 20. 8	31. 8 16. 9 21. 6	10 F	13. 1	27.7 13.8	24.8 7 28.5 5 13.6 0 21.4 5 29.8
Bread. Flour. Corn meal. Rolled oats.	Pounddodo	5, 3 3, 3 2, 0	10.7 6.1 4.3	9. 1 5. 6 4. 2 10. 1	9. 2 5. 4 4. 3 10. 1	8.5 5.9 5.3 8.5	5.3 4.7 7.0	8.1 5.2 4.9 6.8	5. 5 3. 0 2. 2	10.6 5.2 3.4	9.3	3 9.3 8 4.7 9 3.6 2 8.1
Corn flakes  Cream of Wheat  Macaroni  Rice  Beans, navy  Potatoes  Onions  Cabbage  Beans, baked  Corn, canned  Peas, canned	28-oz. pkg Pounddododododododo	10.0	31. 2 22. 8 10. 3 8. 7 3. 0	27. 1 21. 3 11. 9 10. 3 4. 9	26. 7 21. 3 12. 0 10. 3 3. 8	29. 1 20. 5 8. 9 8. 0 3. 0	25. 0 18. 5 9. 6 10. 8 3. 2	25. 0 18. 3 9. 6 11. 7 3. 5	8.4	30. 1 21. 0 8. 0 6. 7 3. 4	24.6 20.3 9.1 11.1 4.1	11.7
Onions,	do No. 2 can dodo		4. 8 4. 4 11. 8 16. 1 20. 0	9. 2 2. 2 12. 2 15. 5 19. 6	6. 2 2. 5 12. 3 15. 5 19. 6	5. 4 5. 2 12. 1 15. 8 18. 9	8.6 5.1 11.3 15.5 18.6	7. 0 4. 4 11. 5 15. 8 18. 8		4. 5 4. 5 11. 8 15. 1 15. 8	7. 0 4. 7 11. 4 14. 7 16. 3	4.4 11.3 14.6
Tomatoes, canned Sugar, granulated Tea Coffee	Pounddodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo.	5. 0 56. 0 26. 8	11. 9 7. 0 83. 4 35. 5	12.8 7.1 81.5 35.9	12.9 7.7 79.8 36.6	6.7	13.5	13. 6 7. 6 60. 6 33. 7	5.2	6.8	6.9	7.5
Prunes Raisins	do Dozen		21.6 31.4 45.0	22. 2 22. 9 37. 1 66. 3	22, 5 23, 6 37, 1 68, 6	20. 5 29. 8 44. 7 51. 9	20. 1 23. 6 41. 0	20. 4 23. 3 41. 3		20. 0 30. 6 36. 3	21.2	22.1 26.7 30.7

1 No. 21 can. .

2 Per pound.

### RETAIL PRICES OF FOOD.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued.

ARTI

0,

July 15, 1922

Cts. 34, 2 30, 9 26, 6 19, 3 12, 4 30, 7 50, 8 33, 9 31, 8 32, 3 12, 0 9, 8 46, 4 45, 6

St	. Pau	l, Mir	ın.	Salt 1	Lake	City, 1	Utah.	San	Franc	eisco, (	Calif.	Sava	nnah	, Ga.		Scran	ton, Pa	
July	15—	June 15,		July	15—	June	July	July	15—	June	July		June		July	15—	June	July
1913	1921	1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922.	15, 1921.	15, 1922.	15, 1922.	1913	1921	15, 1922.	15, 1922,
Cts. 27. 0 23. 3 21. 9 17. 0	28.4	30, 5 28, 6 20, 9		20. 0 19. 9 15. 7	28. 5 24. 3 18. 9	29. 4 26. 3 22. 6	29.7 26.3 22.7 18.0	Cts. 20, 7 19, 0 21, 0 14, 6 13, 0	27. 0 27. 2 17. 2	30.7 27.7 28.2 18.6	Cts. 30. 7 27. 6 28. 5 18. 2 13. 2	29. 6 26. 8 18. 4	25.3 17.7	24.8 17.3	22. 8 23. 8 17. 5	39. 9 35. 4 26. 3	36, 8 35, 1 25, 2	Cts. 48.1 38.3 35.8 25.3 10.9
9. 7 6. 8 8. 0 8. 9 9. 7	51. 3 31. 9	42. 2 51. 7 36. 6	33, 4 42, 2 51, 4 35, 1 28, 8	30.7	45. 0 48. 1 30. 8	40. 0 49. 7 33. 6	39. 3 49. 7 33. 3	33. 3 30. 0 16. 7	54. 4 53. 7 30. 8	54.3 57.9 35.4	53.9 58.6 34.8	38.9 42.3	43. 5 39. 0	44.0	27.5 31.7 21.7	42.3 57.9 42.9	57.7	38. 5 43. 7 57. 5 46. 5 45. 1
6.8	40. 0 10. 0 13. 8 42. 8 28. 9	10.0 11.9	35. 2 10. 0 11. 5 40. 5 27. 6		12.7	9. 0 10. 5 43. 7	9. 0 10. 5	10.0	11.8	13.0 10.1 48.8	13.0 10.1 51.4	20.0 13.3 48.7	18.0 10.2 45.7	18.0 10.0	8. 4 35. 3	13. 6		36. 6 12. 0 11. 3 44. 6 26. 8
	26. 3 28. 9 16. 3 23. 9 38. 5	29. 6 17. 4 24. 3	24.5	19.3	27. 7 25. 7 18. 2 26. 3 40. 8	18.8 25.3	28, 0 19, 0 25, 3	19. 0 18. 8	26. 0 29. 8 18. 9 21. 5 46. 7	33. 7 19. 2	34. 0 19. 1 24. 8	27. 2 18. 0 19. 0	28.5 17.7 20.3	17.7 20.7		17.5 21.8	21. 0 30. 0 17. 8 22. 3 35. 1	21. 0 30. 4 17. 7 22. 7 36. 4
5. 9 3. 0 2. 5	9.5 5.8 4.3 9.2 13.6	3.7 8.6	9.3 5.4 3.4 9.5 10.2		9.8 3.5 4.2 11.0 14.6	3.5	9. 4 3. 3 3. 6 9. 5 12. 3	5. 9 3. 4 3. 4	9. 6 5. 9 5. 0 10. 7 12. 6	5.4 4.5 9.5	5. 4 4. 5 9. 2	10.6 6.1 2.8 10.8 11.6	8.7 5.6 2.7 8.1 8.9	8.7 5.6 2.6 8.3 8.8	3. 6		9. 2 5. 8 6. 2 9. 8 10. 2	9. 2 5. 7 6. 1 9. 8 10. 1
0, 0 1, 4	29.9 18.8 8.6 8.6 4.0	18.6 9.6	18.5 9.5 10.7	8. 2	32. 7 22. 8 8. 4 8. 8 2. 5	21. 2 8. 8	26. 4 20. 9 9. 0 9. 8	8.5	28.7 14.5 9.0 6.8 2.7	12.9		29. 7 20. 2 7. 9 9. 1 3. 6	18.7 8.6	24. 7 17. 7 8. 5 10. 9 3. 8	8. 5	9.7	27. 1 23. 2 9. 8 10. 8	27. 1 22. 9 9. 8 11. 1 3. 5
	6.0 4.1 17.5 16.2 15.9	5. 2	15.0		16.3	17.0	15. 2		1. 6 13. 6 17. 0 18. 2 18. 7	14. 8 16. 7	3. 4 14. 7 16. 5 17. 9	14.9	14.5			5. 2 5. 7 13. 6 16. 7 17. 5	8.5 5.1 12.4 16.8 17.2	8.0 4.2 12.4 16.8 17.3
5. 6 5. 0 0. 0	13. 5 7. 5 69. 6 39. 5	7. 5 65. 0	7. 9 65. 8	5. 9 65. 7 35. 8	11. 5 8. 2 82. 5 46. 5	8.1 78.1	14.4 8.5 78.8 44.1	5. 4 50, 0 32, 0	7.1 58.6	113. 5 6. 9 56. 7 35. 2	7.6	10. 3 6. 9 70. 8 31. 7	6.8	12.6 7.3 68.1 31.9		63. 1	13. 8 6. 9 59. 7 37. 7	14. 2 7. 5 59. 3 37. 5
	12.4	22. 3 26. 7 211.4 67. 7	22. 7 26. 8 2 10.0 66. 2				25. 3 2 16.4		15.5 29.1 40.7 47.1	22.4 37.9	22. 2 35. 7	17.3 31.3 40.6 60.0	22.9	19.3 22.5 30.0 83.0		17.6 30.4 37.4 50.5	18. 6 24. 7 35. 6 66. 1	18.9 23.7 34.4 65.8

TABLE 5.—AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTICLES OF FOOD IN

avera 12 ot mont differ actus avers Eff repor repor follor in his Atlan Cleve olis, Mano New Oreg San Th merc

Percen Number which

7 For 8 The in the have b

	dayaimah, tib	Mini	Seattl	e, Was	h.	Spri	ngfield	, m.	Wa	shing	ton, I	). C.
Article.	Unit.	July	15—	June		July	June		July	15—	June	Jul
101 TOT 1301 1301 1301	den den fin	1913	1921	15, 1922.	15, 1922.	15, 1921.	15, 1922.	15, 1922.	1913	1921	15, 1922.	15
Sirloin steak Round steak Rib reast Chuck roast Plate beef.	dododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododod	21. 5 20. 0 15. 2 13. 0	Cts. 32. 2 28. 9 26. 1 17. 2 13. 2	Cts. 31. 5 27. 6 25. 4 17. 2 13. 4	Cts. 31.0 28.1 24.6 16.8 12.7	Cts. 36. 5 35. 2 24. 6 19. 9 12. 8	Cts. 33. 9 33. 5 23. 2 20. 6 13. 4		Cts. 28. 1 24. 6 22. 0 17. 9 12. 4	47.7 41.4 35.3	Cts. 42, 2 36, 9 33, 5 23, 1 13, 3	Cts 43. 38. 33. 22.
Pork chops Bacon Ham Lamb, leg of Hens	dododo	31.7 19.6 23.8	35, 9 52, 2 53, 9 29, 0 33, 7	34. 4 51. 3 53. 9 34. 3 34. 9	34. 4 49. 7 54. 6 32. 4 33. 4	31. 8 39. 7 50. 3 32. 1 33. 8	31. 2 39. 0 52. 1 40. 6 34. 3	51.1 40.6	28. 1 30. 0		37.9 37.2 58.3 43.9 41.6	39. 37. 59. 41.
Salmon, canned, red Milk, fresh Milk, evaportaed Butter Oleomargarine	do	8. 5 35. 5	33. 4 12. 0 12. 2 43. 8 25. 7	31. 0 12. 0 10. 3 44. 9 27. 5	31. 1 12. 0 10. 3 49. 7 27. 5	40. 3 12. 5 14. 5 47. 6 29. 1	33.9 11.1 11.4 44.3 27.8	33.9 11.1 11.5 44.9 28.3	8.0 36.6	14. 2 49. 2	30. 3 13. 0 11. 1 48. 5 26. 4	29.0 13.0 10.1 48.0 26.1
Nut margarine	do Dozen	17. 8 34. 5	28.4 29.1 19.1 22.8 41.4	28. 1 31. 3 18. 6 25. 3 31. 2	28. 2 32. 2 18. 9 25. 3 32. 2	26. 8 30. 4 16. 1 21. 4 35. 2	27. 1 32. 5 17. 0 22. 8 29. 3	23.0	23.8 15.0	16.3 21.0	26. 2 33. 2 16. 9 21. 8 35. 7	26. 7 33. 3 17. 6 21. 9 36. 7
Bread	dodo	2.9	9.9 4.8 4.5 9.2 13.7	9.9 5.0 3.7 8.6 11.5	9.9 4.9 3.7 8.5 11.5	10. 4 6. 1 4. 4 11. 2 14. 0	9.6 5.5 4.0 10.4 10.1	9.7 5.4 4.2 10.2 9.8	3.8 2.5	3.8	8.7 5.5 3.5 9.3 9.6	8.7 5.6 3.6 9.3 9.8
Cream of Wheat	10	7 7 1	30. 6 18. 3 9. 6 7. 2 3. 3	27. 0 18. 9 11. 0 9. 6 2. 8	27. 0 18. 9 11. 2 10. 0 3. 3	30. 4 22. 0 9. 6 7. 6 4. 1	27. 6 20. 3 10. 3 12. 8 3. 9	27.6 20.3 10.5 13.5 4.3	9.8	22, 2 10, 1 7, 9	25. 7 21. 8 10. 1 10. 8 4. 4	25. 5 21. 5 10. 0 11. 1 3. 8
Onions. Cabbage. Beans, baked. Corn, canned Peas, canned	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo		6. 0 17. 6 16. 9 17. 5	8. 0 6. 5 16. 0 17. 4 18. 7	5. 5 5. 7 15. 9 17. 4 19. 0	6. 7 7. 7 14. 3 14. 6 16. 3	10. 8 6. 4 13. 4 14. 6 17. 3	14.4		6. 8 12. 3 14. 0	8. 8 4. 2 11. 7 14. 2 16. 9	9.0 3.3 11.6 14.3 17.0
Tomatoes, canned Sugar, granulated Pea Coffee		28.0	31.7	15.4 7.5 64.2 39.0	15.4 7.9 65.0 39.2	11.6 7.9 76.6 36.3	15. 4 7. 8 72. 5 35. 5	71.8	5. 0 57. 5 28. 8	6.9	13. 1 6. 8 72. 2 33. 3	12.6 7.3 73.0 33.2
Prunes	Dozen		20, 7	21. 4 24. 5 2 15.0 60. 6	21. 2 24. 8 14.9 57. 6	20. 4 33. 9 11.0 53. 7	20.9 25.6 29.8 64.2	20. 9 25. 9 2 9. 6 63. 9	4	0.7	21. 2 24. 3 36. 5 35. 6	21. 4 24. 2 36. 5 70. 6

1 No. 21 can.

2 Per pound.

## Comparison of Retail Food Costs in 51 Cities.

TABLE 6 shows for 39 cities the percentage of increase or decrease in the retail cost of food <sup>7</sup> in July, 1922, compared with the average cost in the year 1913, in July, 1921, and in June, 1922. For 12 other cities comparisons are given for the one-year and the one-month periods; these cities have been scheduled by the bureau at different dates since 1913. These percentage changes are based on actual retail prices secured each month from retail dealers and on the

average family consumption of these articles in each city.8

Effort has been made by the bureau each month to have perfect reporting cities. For the month of July, 99.3 per cent of all the firms reporting in the 51 cities sent in a report promptly. The following were perfect reporting cities; that is, every merchant in the following-named 39 cities who is cooperating with the bureau sent in his report in time for his prices to be included in the city averages: Atlanta, Baltimore, Bridgeport, Buffalo, Charleston, S. C., Cincinnati, Cleveland, Columbus, Dallas, Denver, Fall River, Houston, Indianapolis, Jacksonville, Kansas City, Little Rock, Los Angeles, Louisville, Manchester, Memphis, Milwaukee, Minneapolis, Newark, New Haven, New York, Norfolk, Omaha, Pittsburg, Portland, Me., Portland, Oreg., Providence, Richmond, Rochester, St. Paul, Salt Lake City, San Francisco, Savannah, Scranton, and Washington, D. C.

The following summary shows the promptness with which the

merchants responded in July:

IN

C.

luly 15, 922.

Ots.

13. 2 18. 1 13. 0 12. 9 2. 7

9.3 7.6 9.0

1.7

0.6

3.0

5.3

1.0

#### RETAIL PRICE REPORTS RECEIVED DURING JULY.

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-	Geogr	aphical di	vision.	*
Item.	United States.	North Atlantic.	South. Atlantic.	North Central.	South Central.	Western.
Percentage of reports received  Number of cities in each section from	99.3	99. 5	100	99	99	99
which every report was received	39	12	8	9	5	5

<sup>7</sup> For list of articles, see note 2, p. 15.
<sup>8</sup> The consumption figure used from January, 1913, to December, 1920, for each article in each city is given in the Monthly Labor Review for November, 1918, pp. 94 and 95. The consumption figures which have been used for each month beginning with January, 1921, are given in the Monthly Labor Review for March, 1921, p. 26.

TABLE 6.—PERCENTAGE CHANGES IN THE RETAIL COST OF FOOD IN JULY, 1922, COM. PARED WITH THE COST IN JUNE, 1922, JULY, 1921, AND WITH THE AVERAGE COST IN THE YEAR 1913, BY CITIES.

City.	Percentage increase, July, 1922, compared with year 1913.	Percentage decrease, July, 1922, compared with July, 1921.	Percentage increase, July, 1922, compared with June, 1922.	City.	Percentage increase, July, 1922, compared with year 1913.	Percentage decrease, July, 1922, compared with July, 1921.	Percentag increase, July, 1922 compared with June 1922.
Atlanta	42	lintor 2		Minneapolis	198 - 41	6	19
Baltimore	45	3	1 1	Mobile	Charles and	3	1
Birmingham	43	5	10.1	Newark	38	3	1
Boston	47	5	6	New Haven	41	3	2
Bridgeport		6	3	New Orleans	42	2	1
Buffalo	46	2 5	2	New York	45	3	10.
Butte			. 2	Norfolk		8	10.
Charleston	47	4	0.3	Omaha	41	2	11
Chicago	48	3	2	Peoria		6	1
Cincinnati	43	5	11	Philadelphia	41	2	12
Cleveland	37	7	10.4	Pittsburgh	39	6	0.
Columbus		6	1	Portland, Me	31.00000	5	4
Dallas	43	1	2	Portland, Oreg	34	21	5
Denver	33	5	2	Providence	46	7	4
Detroit	46	6	00 11	Richmond	53	3	12
Fall River	43	3	2	Rochester	andmino	1/2	3
Houston		5	1	St. Louis	44	4	1
Indianapolis	38	5	10.3	St. Paul	CALL CHAIN	- 6	12
lackson ville	37	4	1	Salt Lake City	24	7	1
Kansas City	37	7	11	San Francisco	36	3	10,
Little Rock	35		10.4	Savannah		6	1
Los Angeles	33	1	10.3	Scranton	47	4	10.
Louisville	29	5	11	Seattle	37	0,4	2
Manchester	43	7	4	Springfield, Ill		4	1
Memphis	36	5	0.3	Washington,		-	
Milwaukee	47	4	2	D. C	49	5	10.

1 Decrease.

2 Increase.

## Retail Prices of Coal in the United States.1

THE following table shows the average retail prices of coal on January 15 and July 15 of each year, 1913 to 1922, by cities. Prices for coal are secured from the cities from which monthly retail prices of food are received.

In addition to the prices for Pennsylvania anthracite, prices are shown for Colorado, Arkansas, and New Mexico anthracite in those cities where these coals form any considerable portion of the sales for household use.

The prices shown for bituminous coal are averages of prices of the several kinds used. The coal dealers in each city are asked to quote prices on the kinds of bituminous coal usually sold for household use.

The prices quoted are for coal delivered to consumers, but do not include charges for storing the coal in cellar or coal bin where an extra handling is necessary.

¹ Prices of coal were formerly secured semiannually and published in the March and September issues of the Monthly Labor Review. Since June, 1920, these prices have been secured and published monthly.

TABLE 1.—RETAIL PRICES OF COAL, PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY 15 AND JULY 15 OF EACH YEAR, 1913 TO 1922, BY CITIES.	NUARY 15 AND JULY 15 OF EAC

Atlanta, Ga.:  Bituminous.  Branch Mass.:  Branch Mass.:  Branch Mass.:  Branch Mass.:  Branch Mass.:  Pa. anthracite—  Brunninous.  Britaminous.  Britamino	-							1010		1920	0	1351	1	1922	21
1 1 4 1 1 1 2 1 4 1 1 1 1 1 1 1 1 1 1 1	July.	Jan. J	July. J	Jan. J	July.	Jan.	July.	Jan.	July.	Jan.	July.	Jan.	July.	Jan.	July.
, 1119 f , 1119, 111 , 111 f , 1	\$4, 575	\$5.050	\$4.500 \$	\$7.000 S	\$7.050	\$7.444	\$7. 778	\$8, 029	\$8, 250	\$9,050	\$13, 250	\$11.854	\$8.841	\$7,519	\$8,115
19 1 , 11119, 1111 , 1111 1 , 1	0 17, 138 1	7.650 1	7.950 18	8, 160 18	8,542 8,700	1 9, 600 1	1 10, 450	111.983	111.750 111.850 16.893	112,500	13, 750 13, 850	15.500	114,750 114,750 18,063	1 15,000 1 14,750 7,850	115.000
,	3.646	3.913	3.644	5.080	5.607	5.616	6.461	6.741	586	7. 496	9, 431	10.648	8.674	192	6.215
	7.500	8.250	8.000	9.500	9.500	9.850	10, 250	12, 000 12, 000 10, 250	12.000 9.000	12, 750 12, 750 9: 500	14.500 14.500 13.250	16.000	15.000	15.000	15.000
. : : : : ; :			== :	10.000	8. 667	10.500	10, 400	12.370 12.370 9.125	11. 750 11. 750 8. 000	12, 500 12, 500 8, 500	15.000	17.500	14, 500	13,850	14,000
: , :	6.650	6.850	7. 010	7.600	8. 138 8. 163	8. 830 8. 830	9, 180	10, 400 10, 500 6, 000	10. 700 10. 800 8. 000	10.890	12, 080 12, 080 12, 000	13, 250	12.910	12,960	12, 813
, :	6.750	7.125	7.125	8. 222	8, 598	9.188	9.083	9.377	9.836	10.381	10,908	12.715	11.982	11.673	11.528
Chestnut 18, 500 18, 000 18, 250 18, 250 18, 250 18, 250 Bituminous 16, 750 16, 750 16, 750 16, 750 16, 750 16, 750 Chicago, III.:	17.750 1 18.250 1 16.750 1	17.750 17. 18.250 18. 16.750 16.	875 1 375 1 750	8.750 111. 9.250 111. 7.000 8.	9000	12, 275 12, 475 8, 000	8. 375	8.500	113,400	113,400 113,500 8,500	116.325 116.400 12.000	117.875 117.725 13.250	117.000	117.000 117.100 12.000	117.000 117.100 12.000
8, 250 8, 050 8, 080 7, 900 8, 160 8, 160 8, 250 8, 050 8, 330 8, 130 8, 350 8, 350 4, 650 5, 000 4, 850 5, 068	7.900 8.150 8.150	8. 100 8. 350 4. 938	8, 240 8, 490 4, 800	9.570	9. 583 9. 667 6. 813	10,350 10,388 6,671	10.900 10.975 6.475	11.808 12.016 6.700	12. 200 12. 300 7. 017	12, 590 12, 690 8, 020	14. 675 14. 788 8. 946	15.913 16.025 9.481	15. 120 15. 230 8. 503	15, 410 15, 340 8, 906	15. 763 15. 630 8. 917
8.250 7.500 8.000 7.917 7.917 8.7917 8.750 8.250 8.167 8.167 8.167 8.500 3.500 3.500	7.667	8.000 3.688	7. 875 10 8. 125 10 3. 500	10,000 10,125 5,500	5.958	9.500 9.500 6.098	11.660	(3)	12,000 .12,000 6,139	000 12,500 14 000 12,667 14 139 6,739 8	14.000 14.000 8.000	15.970 16.375 8.679	15.333 15.750 6.786	15, 333 15, 500 7, 000	16,000 16,000 7,154

17.500 17.500 13.000

17.500 17.500 13.000

16.250 16.250 12.250

24.000 23.000 15.667

18,000 18,000 15,000

17.000

15,000

(3)

12, 000 12, 000 9, 333 9, 825

Fa. antitracite—10,000 9,000 8,000 9,125 9,000 9,000 9,000 11,000 12,000 8,000 10,000 9,000 12,000 12,000 12,000 9,000 9,000 12,000 12,000 9,000 12,000 12,000 9,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,00

Table 1.—RETAIL PRICES OF COAL, PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY IS AND JULY 15 OF EACH YEAR, 1913 TO 1922, BY CITIES—Continued.

thracito-	1913	89	1914		1915	10	1916	0.00	1917	- 8	1918	0.4.0	1919		1920		1921		1922	2
City, and kind of coal.	Jan.	July.	Jan.	July.	Jan.	July.	Jan. J	July.	Jan. J	July	Jan.	July.	Jan.	July.	Jan.	July.	Jan.	July.	Jan.	July.
Cleveland, Ohio: Pa. anthracite— Stove.	87.500						929	028	888	59.667	\$9.825		\$11,050	\$11,538	\$12,300	\$14,050	\$14, 750	\$14.188 14.200	\$14.313 14.438	\$14.375 14.438
Chestnut Bituminous	4.143	7.500	4.400	4. 571	4.643	4.607	4.643	4.946	8. 227	2.000	6.901	\$6.443		7.710	7.911	357	9, 558	708	8, 139	œ.
Pa. anthracite— Chestnut.				1000				3.640	6.400	6.031	5.943	6.179	6.088	12,000	12,000	14.650	16, 500	14.833	15.083	7.191
Dallas, Tex.: Pa. anthracite—	277				8 4 4				9 600	20		B. L.	18,000	20.000	22,000					
Ark. an thracite— Egg Bituminous	8, 250	7.214	7.929	7,150	7.545	8, 250 6, 950	9.000	8.375	11.500	8.583	14, 334	14, 250	15,800	14,500	18, 500	17.500	20, 250	17.084	18, 250	16.000
Colo. anthracite- Stove, 3 and 5	8	8 50	10,500	8.929	9.214	9.071	9, 333	8.786	9.600	10.750	11,750	12, 325	12,650	13, 150	14,000	14.875	17.533	16,000	15,917	15.500
Furnace, 1 and 2 mixedBituminous.										11,000	11,750	12, 325	12.650 8.148	12.650 8.348	13, 500 8, 908	14. 875 9. 469	17.533	16,000	15.917	15.500 10.038
Detroit, Mich.: Pa. anthracite— Stove Chestnut Bituminous	8.250 5.250	7.450 0 7.650 5.200	8.250 5.200	7.750	7.938 8.188 5.179	7.750	7.950 8.200 5.237	8.000 8.250 5.611	9.750 9.800 7.583	9.125 9.313 7.500	9.880 10.080 8.267	10, 150 10, 520 8, 180	11.600	11. 890 11. 980 7. 988	12.650 12.750 8.781	14.625 14.625 12.417	15.950 15.950 12.194	14. 563 14. 563 10. 000	14.563 14.563 8.750	14. 563 14. 563 8. 969
Fall River, Mass.: Pa. anthracite— Stove	. 8.250 8.250	0 7.425 0 7.613	5 7.750 3 8.000	7.688	8.80	7.750	8, 750	8. 438 8. 438	11.000	10.688	10, 750	11. 000 11. 000 10. 000	12, 700 12, 383 10, 250	12, 500 12, 250 9, 500	13, 000 12, 750 10, 000	14, 500 14, 250 12, 875	16, 500 16, 250 14, 000	15.250 15.083 11.000	15.250 15.000 9.167	15.250 15.000 9.000
Bituminous  Houston, Tex.: Bituminous											9,000		10,000	10,000	12,000	11.750	16,286	12.800	12, 250	10.667
Indianapolis, Ind.: Pa. anthracite— Stove Chestnut Bitnuminous	8, 950 9, 150	8,000 3,250 3,700	8.300 4.611	0 7.750 0 7.950 1 4.000	8, 250 8, 450 4, 673	7.650	8, 250 8, 450 4, 411	8, 500 8, 688 4, 568	10, 167		9, 825 9, 925 7, 107	10, 250 10, 500 6, 163,	12, 250 12, 333 6, 875	12, 250 12, 250 7, 375	13,000 13,167 8,188	14.875 14.875 9.625	16,000 16,000 9,838	15, 375 15, 500 8, 631	15, 750 15, 667 7, 550	15.625 15.667 7.432

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	62 10 <del>11</del>	00%	.0 0	000	000	000	00% 19	00
17.500 17.500 13.000	15.286 16.125 8.984	15,000 15,000 11,688	14.000	16,000 16,000 10,300	18,000 18,000 7,786	16, 010 15, 950 9, 750	17, 510 17, 500 11, 938 8, 875	12,750
17. 500 17. 500 13. 000	17, 214 18, 125 8, 669	15.000 15.000 12.800	19.000	16.500 16.500 11.000	18,000 18,000 7,786	15, 980 15, 950 10, 407	17.750 17.750 11.703	12, 750
16. 250 16. 250 12. 250	16, 857 17, 563 9, 550	16,000 16,000 12,423	18,000	16.500 16.500 11.333	18, 000 18, 000 8, 393	15, 940 15, 940 10, 663	17, 730 17, 730 12, 485 10, 438	12, 700
24.000 23.000 15.667	17.917 18.500 10,115	17.000 17.000 14.176	19, 222	18,000 18,000 14,000	18,000 18,000 10,036	16, 200 16, 280 12, 948	18, 330 18, 390 13, 824 13, 214	13,000
18,000 18,000 15,000	15.750 16.500 9.600	14, 500	9.531	15,000 15,000 13,000	18,000 18,000 9,563	14, 800 14, 900 12, 167	16, 520 16, 560 12, 044 11, 900	11.767 11.767 nds).
17.000 17.000 11.000	15,950 16,583 8,625	10.375	21,000 16,000 6,836	13, 417 13, 417 10, 000	16,000 16,000 8,000	12, 600 12, 700 8, 960	14.000 14.100 10.425 10.333	10.483 10.483, 1,800 pou
15.000 15.000 10.000	13. 598 14. 450 7. 469	12, 500 13, 250 9, 250	14, 583	12, 750 12, 750 10, 000	16.000 16.000 7.528	12, 400 12, 500 8, 144	13,800 13,900 9,189 9,722	10,050 10,050 ellots (1
10,000	15, 107 15, 550 7, 354	12, 975 13, 333 9, 414	21, 150 14, 688 6, 743	12,500 12,500 10,000	15,000 15,000 7,221	12, 286 12, 378 7, 814	13, 708 13, 786 9, 000 9, 429	500 9.750 10.050 10.483 11. 500 9.750 10.050 10.483 11. 3 Per 10-barrellots (1,800 pounds)
9.825	13,700 14,200 6,700	9.155	20, 000 14, 700 6, 783	10,500	7.171	10.968 10.904 7.385	12, 238 12, 328 8, 474 9, 000	8,500 8,500
9, 333	12, 592 13, 150 6, 703	8, 250	22,000 14,881 6,038	11,000	6. 539	9.500 9.650 7.385	10, 826 10, 926 8, 888 8, 000	8,100 8,100
12,000 8,500	5.700	7.857	14, 375	11.000	37.018	9. 167 9. 367 8. 000	10.650 10.900 8.600	7,250
11.000 11.000 8.000	9. 292	8.000	5.784	11.000	3 6. 222	9, 020 9, 270 7, 743	10.350 10.660 8.077	7,208
9,000	8.126 8.667 4.353	7.625	16.000 12.900 3.737	8.750	3 4. 083	8, 300 8, 550 5, 875	9,900 10,150 6,375	6,750
9.000 9.000 7.500	8. 333 8. 833 4. 515	6.000	18,000 13,700 3,816	9.000	3 3. 904	8, 100 8, 350 6, 000	9.350	6, 500 6, 750, tration.
9,000	7.883 8.375 4.056	5.361	15,000 11,375 3,478	8,500		7.900 8.150 5.625	9, 150 9, 400 5, 960	6. 250 6. 500 dminist
9,000	8.838 4.200	5.972	15.000 13.600 3.997	8.750	3.88	8, 100 8, 350 6, 143	9.307	6.500 6.250 6.500 6.250 6.500 6.750 6.750 Zoned out by Fuel Administration
9, 125 9, 125 6, 875	7.917 8.500 4.093	5. 833	3,963	8, 500	8 4. 219	7.930 8.180 5.714	9, 133 9, 383 5, 846	6. 250 6. 500 out by
9.000	8, 286 8, 920 4, 276	6.250	17.000	8.750	8 4. 219	8, 080 8, 330 6, 143	9.350 9.600 5.875	6, 500 6, 750 2 Zoned
9.000	3, 935	5. 333	12, 500	8.500 8.500	4.219	7.850 8.100 5.714	9.060	6. 500
10,000	4.391	6.000	13.520 12.500	10.000	3 4, 344 a 4, 219 a 4, 219 a 4, 219 a 3, 883 a 3, 838	8.250 6.250	9,250	6. 500
Stove Chestnut. Bituminous. Kansas City, Mo.:	Furnace. Stove, or No. 4. Bituminous. Little Rock, Ark.	Ark. anthracite— Egg. Stove. Bituminous Los Angeles, Calif. N. Mex. anthra-	cite— Cerillos ege Bituminous Louisville, Ky.: Bituminous Manchester, N. H.:	Stove Stove Chestnut Bituminous		Stove	Fa. anthracite—Stove. Chestnut. Bitumi nous. Mobile, Ala. Bitumi nous.	Pa. anthracite—Stove

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TABLE 1.—RETAIL PRICES OF COAL, PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY 15 AND JULY 15 OF EACH YEAR, 1913 TO 1922, BY CITIES—Continued.

18,000 18,333 8,393 14,000 14,000 9,952 500 115,750 115,583 6,656 135 988 994 July. 843 114.0 133 22: 6.6 15. 1922 115.500 \$14,000 18,000 18,000 10,781 13, 208 13, 208 9.450 4.290 4.290 22.000 11.800 87. 14.125 14.125 3200 843 Jan. 5.55 15. 14,500 14,500 11,971 114,156 17.000 17.000 10.528 13,300 88 15,375 15,500 6,406 382 750 15, 120 15, 120 9, 310) July. 115.8 13, 2222 1921 \$17.083 17.083 14.542 16,000 16,000 13,357 16.500 16.500 7.750 500 375 697 975 500 16, 320 16, 320 12, 740 Jan. 114.9 882 ន់ន្លន់ 3 0 0 0 115,250 115,175 7,375 \$14,583 14,583 21.300 21.400 11.465 14,000 14,000 7,429 13,067 14,500 14,500 12,125 438 888 15,360 15,360 14,810 July. 113. 18.10 1920 \$12,250 11,536 13.000 13.000 9.750 17. 275 17. 450 10. 108 111,881 113,750 114,000 6,179 17.500 17.500 9.269 13,000 13,000 6,000 13, 440 13, 440 9, 370 Jan. \$11,333 16,000 16,000 8,292 500 375 375 16, 450 16, 550 8, 930 11. 667 11. 750 5. 550 850 750 663 833 800 200 200 573 July. 112,0 0.0 200 10, ल लंब 1919 112,750 \$12,050 111.244 11,700 11,700 8,250 10, 757 5.850 006 0000 8, 471 Jan. 200 × 5.50 111,000 1111,050 5,696 \$10,100 9,300 14,550 9.500 7.750 7.388 11.000 988 040 July. 19.8 10.1 8161 110,150 9.750 13.067 13.300 8.040 9.058 10,000 13, 188 13, 338 7, 950 2020 594 890 453 Jan. 0.00 19. 0.00 18,319 8,440 1 7, 967 1 8, 000 1 10, 500 1 10, 625 1 8, 017 1 8, 100 1 10, 850 1 10, 650 4 3, 326 4 3, 450 4 4, 857 4 5, 750 9,000 13, 250 13, 500 7, 750 4 ...... \*\*\*\*\*\* ...... July. 1917 13,100 13, 200 13, 400 7, 857 500 17.969 88 Jan. ගේ ගේ 00 17.494 27.72 11,700 12,200 3 6,063 7.393 11,750 12,000 6,000 ..... ...... July. ...... ...... .... 1916 17.250 10,500 10,750 11,000 6,042 500 7.107 ..... ..... Jan. 57. 0 17,875 17,567 0 17,983 17,567 8 43,225 43,225 10, 125 10, 625 8, 083 10, 700 \$6.750 6.750 6.907 17.050 17.250 17.013 17.300 17.500 17.263 \*\*\*\*\*\* ...... July. 1915 10.500 7.143 10,750 11,000 6,088 \$7.000 7.000 ..... ...... \*\*\*\*\*\*\* \*\*\*\*\*\*\* ..... Jan. 10.500 \$6.579 6.579 8. 850 6. 993 10,950 17, 938 17, 375 17, 713 17, 550 18, 000 17, 438 17, 775 17, 550 43, 158 43, 158 July. 1914 1250 10.000 6.857 17.281 \$6.571 6.571 ...... ...... ... Jan. 0.01 10, 750 11, 000 6, 125 17, 156 16, 894 \$6.250 6.250 10,000 6,800 July. ...... ...... ...... 1913 12,000 12,000 6,625 10,000 7.500 7.071 ...... Jan. Bituminous..... New York, N. Y.: Pa. anthracite— Stove..... Stove.... Stove..... Philadelphia, Pa.: Pa. anthracite— New Haven, Conn. Pa. anthracite— 0 Norfolk, Va.: Pa. anthracite Bituminous .... eoria, III.: Pa. anthracite-Omaha, Nebr.: Pa. anthracite-Pittsburgh, Pa.: Pa. anthracite Pa. anthracite City, and kind Portland, Me.

12, 717

12,964

13, 469

13, 792

11.955

11.618

11, 493

10, 566

10, 442

10, 181

9,659

10, 276

9, 263

9, 438

9, 224

0,382

9, 279

9,625

9,656

9.786

Portland, Oreg.:
Bituminous.....
Providence, R. I.:
Pa. anthracite—

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Parameter   Para					1	RETAI	L PRICE	S 01	F CO	AL.		
8.200 7.200 7.700 8.700 8.700 8.500 9.40 9.50 10.00 9.1.370 9.1.370 9.1.300 9.1.00 9.1.370 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1.300 9.1	12,717	5 15. 5 15.			13. 450			19, 125	20.000 8.706	24, 250		8 16. 8 16.
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	Fortland, Oreg.: Bituminous	1 !!!	1		٦	111	10000					Pa. anthracite— Stove Chestnut Bituminous

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1 Per ton of 2,240 pounds.
2 Zoned out by Fuel Administration.
2 Per 16-barrellose (1,300 pounds).
4 Per 25-barrellose (1,300 pounds).
50 cents per ton additional is charged for "binning." Most customers require binning or basketing the coal into the cellar.
6 50 cents per ton additional is charged for "binning." A charge of 10 cents per ton or half ton is made. This additional charge is included in the price.
6 All coal sold in Savannah is weighed by the city. A charge of 10 cents per ton or half ton is made. This additional charge is included in the price.

TABLE 1.—RETAIL PRICES OF COAL, PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY 15 AND JULY 15 OF EACH YEAR, 1913 TO 1922, BY CITIES—Continued.

	19	1913	1914	14	1915	10	1916	12	1917	7	1918	8	19.	6161	1920	30	1921	17	1922	23
Bitaminana.	Jan.	July.	Jan.	July.	Jan. July, Jan. July, Jan. July.	July.	Jan.	July.	Jan. July. Jan. July.		Jan.	July.	July, Jan. July.	July.	Jan.	Jan. July.	Jan.	July.	Jan.	July.
Scranton, Pa.: Pa. anthracite—							1					1	1	4 1		12.000			0.77	100 m
	4.500	\$4,313 4,563	4. 750	4, 563	\$4.250 \$4.313 \$4.500 \$4.313 \$4.438 \$4.125 4.500 4.503 4.750 4.503 4.688 4.313		4, 625 4, 800	4.800	5,250	5. 250	\$6, 113 6, 150	\$6,050 6,150	\$7.475 7.563	\$7.683 7.783	88, 233	9, 275	9.833	\$9, 550 9, 550	9.700	\$9.700 10.183
Bituminous	7,125	77.200	7 6. 167	7 5.800	77.125 77.200 76.167 75.800 75.906 75.318		7 5. 528	7 5.750	7 5, 528 7 5, 750 7 5, 850 7 6, 133	7 6, 133	8 7.867	8 9, 133	8 9, 163	8 9, 108	8 9, 588		89,843 8 11,611 8 11,337 8 10,130	8 11.337	s 10, 130	89.943
Bituminous		:	:	2.646	2.646 2.078	2,094	2, 563	2,750	2.706	3, 455	3.711	3.661	3, 832	3,976	3,950	4. 450	4.950	4. 425	4.575	4.625
Pa. anthracite— Stove Chestnut.	7. 650	17.381	17.588	17.419	17.731	17.400	7.625	7.726	18,206	18,567	10, 100	1 9.960	111.890	111.911	17.500 17.381 17.588 17.419 17.731 17.400 17.625 17.725 18.206 18.567 110.100 19.960 111.800 111.911 112.447 113.793 115.597 114.514 114.943 114.	1 13, 798	115,598	114, 514	114.943	114, 721

Per ton of 2.240 pounds.
At yard, delivery \$0.50 to \$2, according to distance.
The cartage charge charge in Zone A was \$1.85 until in July, 1921, when it was \$1.55. Beginning with January, 1922, the cartage charge in Zone A has been \$1.75. These charges have been included in the averages.

[522]

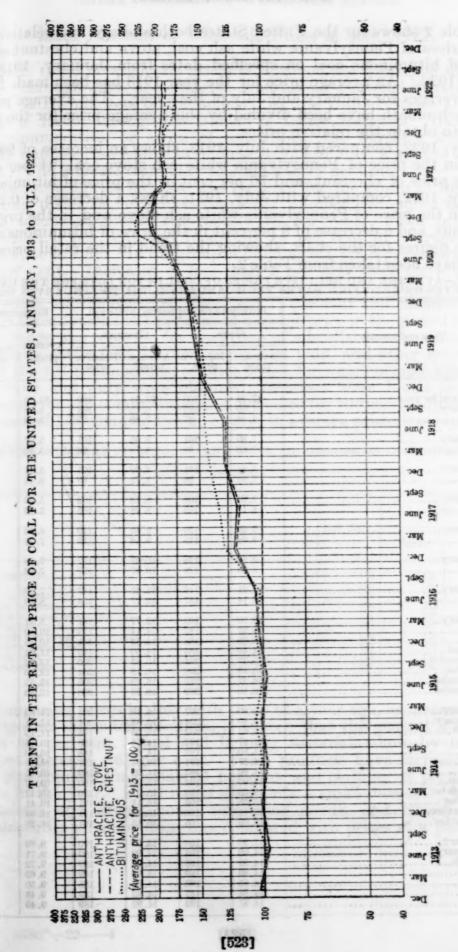


Table 2 shows for the United States both average and relative retail prices of Pennsylvania white ash coal, stove and chestnut sizes, and of bituminous coal on specified dates from January, 1913, to July, 1922. An average price for the year 1913 has been made from the averages for January and July of that year. The average prices for each month have been divided by this average price for the year 1913 to obtain the relative prices.

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July, 1922, compared with July, 1913, shows an increase of 99 per cent in the price of Pennsylvania white ash stove coal, 94 per cent in the price of chestnut, and 76 per cent in the price of bituminous.

July, 1922, compared with July, 1921, shows a decrease of 0.2 per cent in the price of Pennsylvania white ash stove and in the price of chestnut, and a decrease of 9 per cent in the price of bituminous coal,

The figures for the chart, showing the trend in the retail prices of

coal, have been taken from Table 2.

TABLE 2.—AVERAGE AND RELATIVE PRICES OF COAL IN TON LOTS FOR THE UNITED STATES ON SPECIFIED DATES FROM JANUARY 15, 1913, TO JANUARY 15, 1922.

	Pennsy	ylvania ant	hracite, w	nite ash.	Bituminous,			
Year and month.	Ste	ove.	Ches	stnut.				
44	Average price.	Relative price.	Average price.	Relative price.	Average price.	Relative price,		
1913:								
Average for year	\$7.73	100	\$7.91	100	000 40			
January	7. 99	103	8.15	103	5.48			
July	7.46	97	7.68	97	5.39	1		
January	7, 80	101	8.00	101	. 5 07			
January	7. 80	101	7.78	101	5.97	1		
July 1915:	7.00	90	1.10	80	5.46	10		
January	7, 83	101	7, 99	101	5,71	10		
July	7.54	98	7.73	98	5, 44			
1916:		. 00	1.10		0. 33	41		
January	7, 93	103	8, 13	103	5, 69	10		
July		105	8, 28	105	5, 52			
1917:					0.0			
January	9. 29	120	9.40	119		1		
July	9.08	118	9.16	116	7.21	i		
1018		Photo Company				1		
January	9. 88	128	10.03	127	7.68	1		
July	9, 96	129	10.07	127	7.92	1		
1919:	COLUMN TO STATE OF THE PARTY OF							
January	11.51	149	11.61	147	7.90			
July	12.14	157	12.17	154	8.10	1		
1920:		1			The same			
January	12.59	163	12.77	161	8, 81	1		
June	14. 07	182	14. 14	179	10.19			
July		185	14. 33	181	10.55			
August		186	14.50	183	11.04			
September	15. 77	204	15. 85	200	12.12			
October	16.08	208	16. 15	204	12.50			
November	16. 22	210	16.29	206	12.53			
December	16. 16	209	16. 29	206	12.30	1		
1921: January	00	207	10.10	201	11 00			
January		207	16. 13	204	11.82			
February	15. 80	204	15. 88	201	11.41			
March	15. 63	202	15, 66	198	11.15			
April	14. 87	192	14.86	188	10. 58			
May	14. 80	192	14.88	188	10.40			
June	14.77	191	14.84	187	10.39			
July	14. 90	193	14. 95	189	10, 47			
August	14. 97	194	15.02	190	10.47			
September	15. 03 15. 08	195	15. 07 15. 11	190	10.47			
October November	15. 08	195	15. 11	191	10.41	1		
December	15. 11	195	15, 14	191	10. 34			
1922:	10.00	100	10. 10	101	10. 20			
January	17. 98	194	15, 02	190	9, 89			
February	14. 92	193	14, 99	189	9. 71			
March	14, 89	193	14. 94	189	9. 72			
April.	14. 89	193	14, 94	189	9, 72			
May	14. 85	193	14. 91	189	9, 62			
June.	14. 88	192	14. 91	188	9, 50	1		
July	14. 88	193	14, 93	189	9, 48			
ашу	14. 61	100	14. 02	100	0. 40			

## Index Numbers of Wholesale Prices in July, 1922.

THE trend of wholesale prices of commodities continued upward through July, according to information gathered in representative markets of the country by the United States Department of Labor through the Bureau of Labor Statistics. Based on 404 commodities, or series of quotations, the bureau's weighted index number rose from 150 in June to 155 in July, a gain of 3½ per

cent. The increase from May to June was 13 per cent.

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The largest price increase was reported for the group of fuel and lighting materials, in which the index number, computed in part from estimated prices, rose nearly 13 per cent. Farm products advanced 3 per cent and foodstuffs 1½ per cent in average price from June to July. In the group of building materials prices advanced 1¾ per cent. Increases of less than 1 per cent took place among cloths and clothing and metals and metal products. House furnishing goods, on the contrary, decreased 1¾ per cent and chemicals and drugs three-fourths of 1 per cent in average price in the period stated. No change was reported for the group of miscellaneous commodities, including cattle feed, leather, paper and pulp, and other articles.

Of the 404 commodities, or price series, for which comparable data for June and July were obtained, increases were found to have occurred for 146 commodities and decreases for 100 commodities. In the case of 158 commodities no change in average prices was reported.

INDEX NUMBERS OF WHOLESALE PRICES, BY GROUPS OF COMMODITIES.

[1913=100.]

	176				1001 7.1	192	2
			000		1921, July.	June.	July.
l and lig als and 1 ding ma nicals a	lothing. hting. netal pr	oducts		 	119 141 172 186 124 160 129 180	131 140 179 225 120 167 122 176	135 142 186 254 121 176 121 173

Comparing prices in July with those of a year ago, as measured by changes in the index numbers, it is seen that the general level has risen 10 per cent. Fuel and lighting materials show by far the largest increase, 36½ per cent. Farm products have increased 13½ per cent, building materials 6½ per cent, and clothing 4¾ per cent in price in the year. Food items show only a small increase. Metals, chemicals and drugs, house furnishing goods, and miscellaneous commodities all show decreases compared with prices of a year ago.

base into the index for each year or month on that base. 'I results are therefore to be regarded only as approximations of

Revised Index Numbers of Wholesale Prices, by Years, 1890 to 1921.

TO MEET the demand for index numbers of wholesale prices for years prior to 1913, comparable with the revised figures for years and months since 1913 recently computed by the United States Department of Labor through the Bureau of Labor Statistics, the following table is presented. While the results here shown for earlier years are necessarily based on a smaller number of commodities than the data for recent years, the figures are believed to furnish a reliable barometer of wholesale price changes in general over the period stated.

REVISED INDEX NUMBERS OF WHOLESALE PRICES, BY YEARS, 1890 TO 1921.

Year. Ditter	Farm prod- ucts.	Foods.	Cloths and cloth- ing.	Fuel and light- ing.	Metals and metal prod- ucts.	Build- ing mater- ials.	cals	House- furn- ishing goods.	Mis- cel- lane- ous.	All com- modi ties,
1890	70	86	95	62	116	82	91	88	99	
1891	75	85	91	60	102	78	92	89	97	8
1892	68	79	91	57	92	74	93	85	91	1
893	71	85	90	58	85	73	91	85	92	
1894	61	75	79	56	72	70	82	80	88	
895	61	74	77	66	77	68	81	77	93	
896	55	69	76	65	78	68	81	77	92	
897	59	71	75	55	72	66	88	75	93	
1898	63	74	77	56	72	70	97	78	96	
899	64	74	80	67	110	77	101	80	100	
900	70	79	88	76	108	81	102	87	104	
901	74	79	81	73	103	78	105	87	96	
902	81	83	82	84	100	80	108	87	93	
903	77	81	87	98	99	82	105	90	102	
904	81	84	88	87	88	79	105	89	110	
905	79	86	90	81	98	85	103	88	117	
906	80	83	98	85	113	95	96	91	116	
907	87	89	105	89	121	100	98	98	111	
908	86	91	94	88	95	92	99	92	101	
909	97	97	98	84	93	95	100	92	130	
910	103	101	100	78	94	98	102	96	151	1
911	93	97	96	76	89	98	102	93	111	
912	101	104	97	84	99	99	- 101	94	110	
913	100	100	100	100	100	100	100	100	- 100	1
914	103	102	98	93	85	92	101	100	95	
915	104	105	98	- 88	99	94	134	100	95	1
916	123	121	127	126	162	120	181	106	121	1
917	190	167	175	169	231	157	202	125	148	1
918	. 218	188	228	170	187	172	215	153	156	1
919	231	207	253	181	162	201	169	184	175	2
920	218	220	295	241	192	264	200	254	196	2
921	124	144	180	199	129	165	136	195	128	1

Wholesale Prices in the United States and Foreign Countries, 1913 to June, 1922.

IN THE following table the more important index numbers of wholesale prices in the United States and several foreign countries, as compiled by recognized authorities, have been reduced to a common base, in order that the trend of prices in the several countries may be directly compared. The results here shown have been obtained by merely shifting the base for each series of index numbers to the year 1913; i. e., by dividing the index for 1913 on the original base into the index for each year or month on that base. These results are therefore to be regarded only as approximations of the

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errect index numbers in the case of series constructed by averaging he relative prices of individual commodities.1 This applies to the ndex numbers of the Department of Labor of Canada, the Statistique énérale of France, the series for Italy constructed by Prof. Riccardo achi, and the series here shown for Japan. The index numbers of be United States Bureau of Labor Statistics and the Census and Stastics Office of New Zealand are built on aggregates of actual money rices, or relatives made from such aggregates of actual prices, and herefore can readily be shifted to any desired base. The series here hown for Sweden, Germany, the United Kingdom, and Australia are eproduced as published, the last two series being rounded off to hree figures. It should be understood also that the validity of the omparisons here made is affected by the wide difference in the numer of commodities included in the different series of index numbers.

MOLESALE PRICES IN THE UNITED STATES AND CERTAIN FOREIGN COUNTRIES [Index numbers expressed as percentages of the index number for 1913. See text explanation.]

Year and month.	United States: Bureau of Labor Statisties (Revised a); 404 commodities (variable).	Canada: Depart- ment of Labor; 272 com- modi- ties (vari- able).	United King- dom: Board of Trade; 150 com- modi- ties.	France: Statis- tique Géné- rale; 45 com- modi- ties.	Germany: Statistis- ches Reichs- amt; 38 com- modi- ties.	Italy: Riccardo Bachi; 38 com- modities until end of 1919; there- after 76 com- modi- ties.	Japan; Bank of	Sweden: Svensk Handels- tidning; 47 com- modi- ties.	Austra- lia: Bureau of Cen- sus and Sta- tistics; 92 com- modi- ties.	New Zea- la nd: Census and Sta- tistics Office; 140 com modi- ties.
913	100	100	100	100	100	100	100	b 100		100
914	98	100	100	102	100	95	96	116	c 100	102
915	101	110		140		133	97	145	141	121
916	127	134		188		201	117	185	132	131
47	177	174	*******	262	**********	299	147	244	146	148
Mg	194	205	********	339		409	192	339	170	172
918	206	216	*******	356		364	236	331	180	175
020			01.6		1486	624	259	347	218	
021	226	246	314	510	1911	578	200	211	167	208
141	147	182	201	345	1911	9/8	200	211	101	197
1914.	98	101	100	100		102				
bril.	98	101		100	*********	92				
uly	97	99		101		92				
etober	97	102	*******	107		98				********
F 55 41	97	102	*******	10%		90	*******		*******	
1915.	98	103		124	milioh	105			L. mil	1 1914
nuary	99	108		135		121				
nly	100	111		142		130			100000000	
ctober	102	1112		158		148			*******	
	102	112	*******	100		140	***********		********	
1916.	101	107			MILL .					
miary	113	127	*******	179	********	184				*******
pril	121	132		190		201				
	123	132		186		193				
ctober	136	138		198	*******	207	*******	**********	133	
1917.	ar rang		20 110		Paping	000			100	
nuary	153	154		215		229			133	
pril	173	169		248		265	1		136	
ну	188	179		268		304			148	
etober	183	179		284		350			155	

For particulars concerning revised index numbers, see Monthly Labor Review for July, 1922, pp. 9 and 60.

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b July, 1913, to June, 1914.
c July, 1914.
for a discussion of index numbers constructed according to this method, see Bulletin No. 181 of the J.S. Bureau of Labor Statistics, pp. 245–252.

WHOLESALE PRICES IN THE UNITED STATES AND CERTAIN FOREIGN COUNTRIES—Concluded.

Year and month.	United States: Bureau of Labor Statis- tics (Re- vised 1); 404 com- modi- ties (vari- able).	Canada: Depart- ment of Labor; 272 com- modi- ties (vari- able).	United King- dom: Board of Trade: 150 com- modi- ties.	France: Statis- tique Géné- rale; 45 com- modi- ties.	Germany: Statistis- ches Reichs- amt; 38 com- modi- ties.	Italy: Riceardo Bachi; 38 commodities until end of 1919; there- after 76 commodities.	Japan; Bank of Japan, Tokyo; 56 com- modi- ties.	Sweden: Svensk Handels- tidning; 47 com- modi- ties.	Austra- lia: Bureau of Cen- sus and Sta- tistics; 92 com- modi- ties.	New Zea- land: Census and Sta tistics Office; 140 com modi- ties.
1918. January February March April May June July August September October November December.	184 186 187 190 190 191 196 200 204 202 203 202	190 194 199 199 204 207 210 210 211 214 215 213	3660	313 319 327 333 335 329 337 350 355 360 358 353		363 380 394 401 409 415 429 432 433 442 437 371	Maria	370 367 372	164 164 167 168 171 171 170 172 172 173 172 172	16(15) 16(16) 16(16) 16(16) 172 177 179 182 186
1919. January. February March. April. May June July August. September October. November December.	199 193 196 199 202 203 212 216 210 211 217 223	211 206 205 206 210 210 217 222 223 221 227 238		348 340 337 332 325 330 349 347 360 382 405 423		325 321 325 332 338 358 362 369 372 390 439 457		369 358 354 339 330 324 320 321 319 307 308 317	171 167 168 171 172 173 176 182 185 200 199	180 176 170 168 167 168 170 174 178 179 181
1920. January February . March April May June July August September October November December.	233 232 234 245 247 243 241 231 226 211 196 179	250 254 258 261 263 258 256 244 241 234 225 214	303 317 326 332 332 333 324 320 318 309 203 269	487 522 554 588 550 493 496 501 502 461 435	1256 1685 1709 1567 1508 1382 1367 1450 1498 1466 1509 1440	508 557 602 664 660 632 604 625 655 650 670 655	301 314 322 300 272 248 239 235 -231 226 -221 206	319 342 354 354 361 366 364 365 362 346 331 299	203 206 209 217 225 233 234 236 230 215 208 197	190 194 202 205 206 205 215 215 216 218 214 214
1921. January February. March April May June July August Cotober November December.	170 160 155 148 145 142 141 142 141 142 141 142 141	208 199 194 187 183 179 176 174 172 169 168 170	251 230 215 209 206 202 202 198 194 191 184 176 171	407 377 360 347 329 325 330 331 344 331 332 326	1439 1376 1338 1326 1308 1366 1428 1917 2067 2460 3416 3487	642 613 604 584 547 509 520 542 580 599 595	201 195 191 190 191 192 196 199 207 219 214 209	267 250 237 229 218 218 211 198 182 175 174 172	196 192 181 171 166 162 159 160 160 156 151	212 206 204 201 198 196 196 193 193 191 187 185
1922. January February . March April May June	138 141 142 143 148 150	168 169 166 166 167 165	168 165 163 163 164 163	314 306 307 314 317 325	3665 4103 5433 6355 6458 <b>7030</b>	577 562 533 527 524 537	206 204 201 197 194 197	170 166 164 165 164 164	147 147 146 148 155 156	182 178 176 176 174

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to the year 1913; i. e., by dividing the index on restaurable base and the index for, each year or month on that been

Quantity and Cost of Clothing Purchased by Average Workingman's Family in One Year.

THE following table shows the number and the cost of a large number of articles of clothing purchased in one year by the

average workingman's family in the United States.

In the fall of 1918 and the winter of 1919, the Bureau of Labor Statistics made a survey of the cost of living in 92 localities in the United States. Detailed information relative to incomes and expenditures was secured from 12,096 families. The table presented here shows figures for 12,094 families. The data relating to clothing consist of the number of each of the articles named that were purchased by the families in one year together with its cost.

The data are shown separately for male and female members of the family, and under each sex are shown by subdivisions as follows:

For husband or wife; for children under 4 years of age; children 4 and under 8 years; children 8 and under 12 years; children 12 and under 15 years; children 15 and over; and dependents—that is, persons (other than the children of the family) living with the

family and dependent upon the family purse for their support.

The table shows figures for "All families" and for "Families purchasing." By "All families" is meant the number of families having persons in the group under consideration. Of course, in the case of husband and wife, this means the total number of 12,094 families, as data were secured only from families having both husband and wife living. In the group of male children under 4 years of age "All families" means 3,848—that is, there were 3,848 families having male children under four years of age. In the group of male children 4 and under 8 years, "All families" means 3,674, etc. This number appears for each group at the head of the table for that group. By "Families purchasing" is meant in each case the number of families reporting the purchase during the year of the article under consideration. To illustrate: While there were 12,094 families for which data were reported for the husband, there were only 7,502 of these families that reported the purchase of felt hats, 3,396 the purchase of straw hats, etc. This number, varying in each case, is shown in the column, "Number of families purchasing." For each article, figures are given showing the average number of articles per family, the average cost per family, the average number of articles per person (that is, per person of the group being considered), the average cost per person, and the average cost per article. Under "Families purchasing" are shown the number of families purchasing, the per cent that these families are of all families in the group, the average number of articles per family purchasing, and the average cost per family purchasing.

QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING. MAN'S FAMILY IN ONE YEAR.

Husbands (12,094 families).

Article.	CLEAR	112/27		-	Families purchasing.				
to incomes and ex- The table presented a relating to clothing named that were pur	Average num- ber of articles per family.	Average cost per family.	Average number of articles per person.	Average cost per person.	Average cost per article.	Number of families purchasing.	Per cent of all families.	Average number of articles per family.	A ver age cost per fami ly.
dats, felt dats, straw aps. dats, wool dats, cotton oats (separate) dants (separate), wool ants (separate), cotton verceats dackinaws dincoats deaning, pressing, and repairing veralls deaning, cotton dirts, wool dirts, silk dershirts, cotton dirts, silk dershirts, wool disparas dets, cotton deks, cotton deks, cotton deks, silk does, low does repairing does shines dubber boots douse slippers dats and leggings debers metics doves and mittens, leather, dress doves and mittens, cotton doves and		\$2, 26 .74 .756 .15. 35 .92 .1. 97 1. 12 3. 96 .47 .96 1. 90 .88 4. 65 .61 .82 .43 .41 .82 .41 .82 .41 .82 .41 .82 .43 .40 .83 .41 .82 .43 .40 .83 .41 .82 .43 .44 .83 .45 .61 .82 .44 .83 .44 .84 .85 .64 .85 .45 .64 .85 .85 .85 .85 .85 .85 .85 .85	0.7 .3 .5 .6 .1 .4 .4 .4 .2 .08 .1 .2 .1 .3 .6 .3 .2 .1 .2 .2 .3 .1 .2 .2 .3 .1 .2 .2 .3 .1 .2 .2 .3 .1 .2 .2 .3 .4 .4 .4 .4 .4 .5 .5 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6	\$2. 26 . 74 . 56 15. 35 . 92 . 22 1. 97 1. 12 3. 96 . 47 . 96 1. 00 2. 46 . 88 4. 65 . 61 . 82 . 43 . 41 2. 95 . 20 10. 70 . 96 2. 64 . 30 . 20 . 41 . 21 . 82 . 43 . 41 . 20 . 45 . 20 . 46 . 34 . 45 . 21 . 39 . 41 . 20 . 45 . 20 . 46 . 34 . 45 . 40 . 45 . 40 . 40	\$3. 23 2. 52 1. 11 26. 54 12. 99 4. 96 5. 08 3. 06 22. 38 9. 61 1. 31 2. 25 4. 28 1. 01 2. 22 1. 58 3. 68 3. 66 1. 27 -76 -71 5. 17 4. 41 -76 -71 5. 17 4. 41 -76 -71 5. 17 4. 41 -76 -71 5. 17 4. 41 -76 -71 5. 17 4. 41 -76 -76 -71 5. 17 4. 41 -76 -76 -71 5. 17 4. 28 5. 18 5. 1	7, 502 3, 396 4, 290 6, 232 753 403 3, 370 2, 604 2, 118 325 661 2, 442 3, 461 5, 618 2, 431 10, 801 1, 388 432 3, 829 1, 135 3, 669 1, 048 5, 439 1, 135 1, 048 5, 439 1, 1480 2, 025 1, 076 11, 471 2, 235 10, 597 1, 210 702 1, 946 3, 984 1, 210 702 1, 946 3, 984 1, 228 3, 936 1, 263 7, 831 8, 663 7, 831 8, 663 7, 841 8, 663 7, 166 3, 173 5, 894 1, 412	62. 0 28. 1 35. 5 6. 2 3. 3 27. 9 21. 5 5. 5 20. 2 28. 6 20. 1 89. 3 11. 5 3. 6 31. 7 94. 8 17. 0 94. 9 16. 7 17. 8 18. 9 19. 2 19. 2 19. 2 19. 3 19. 4 19. 5 19. 6 19. 6 19. 6 19. 7 19. 8 19. 7 19. 8 19. 9 19. 8 19. 9 19. 8 19. 9 19. 9	1.1 1.4 1.1 1.1 1.3 1.4 1.7 1.0 1.0 1.0 1.0 1.1 2.5 2.2 4.0 1.4 2.6 2.0 2.7 2.1 1.4 2.6 2.0 2.7 2.1 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	\$3.6 2.6 2.6 2.7 5.1 2.7 5.2 2.5 5.2 4.5 2.2 5.2 4.5 2.2 5.2 4.5 2.2 5.2 4.5 2.2 5.2 4.5 2.2 5.2 4.5 2.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5
ioves and mittens, leather, dress loves and mittens, leather, work loves and mittens, cotton loves and mittens, wool lilars	3.9 .1 4.4 2.2 5.5 .1 1.1 .3 .8	. 22 . 42 . 35 . 86 . 13 . 79 . 09 . 31 . 24 . 43	.1 .2 .3 3.9 .1 4.4 2.2 5.5 .1 1.1	. 22 . 42 . 35 . 86 . 13 . 79 . 79 . 79 . 31 . 24	2. 70 2. 04 1. 07 . 22 . 98 . 18 . 61 . 14 1. 56 . 28 . 78 . 57	875 2, 226 1, 228 3, 936 1, 263 7, 831 8, 663 7, 896 653 7, 166 3, 173	7. 2 18. 4 10. 2 32. 5 10. 4 64. 8 71. 6 65. 3 5. 4 59. 3 26. 2 48. 7	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1 2 2 3 1 5 1 5 2 5 1

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Watches

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QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING-MAN'S FAMILY IN ONE YEAR-Continued.

Male children under 4 years of age (3,848 families).

		Al	l familie	es.		Fa	milies p	urchasii	ng.
Article.	Average number of articles per family.	Average cost per family.	Average number of articles per person.	Average cost per person.	Average cost per article.	Number of families purchasing.	Per cent of all fami- lies.	Average number of articles per family.	Average cost per family.
Hats, felt	0.2	\$0, 24	0.2	\$0, 21	<b>\$1.</b> 08	661	17. 2	1.3	\$1.
Hats, Straw	.1	.13	.1	.12	. 93	474	12.3	1.2	1.
Cans.	1.2	. 89	1.0	.79	.77	2,547	66. 2	1.7	1.
Suits, wool	.1	.48	.1	.42	3. 63	380	9.9	1.3	4.
Suits, cotton		1. 28	1.0	1, 13	1.11	986	25. 6	4.5	4.
Coats (separate)	. 03	.10	. 03	. 09	3.14	99	2.6	1.2	3.
Pants (separate), wool	. 03	. 03	. 03	.02	.99	57	1.5	1.9	1.
manus (Separate), cotton	.1	. 05	.1	1.50	. 68	1 269	2.4	3.3	2.
Overcoats		1.79	.4	1, 59	4.53	1,362	35. 4	1.1	5.
Raincoats		.01	.003	.01	4.33	12 12	.3	1.0	4.
weaters and jerseys	.5	1.04	.4	.92	3. 94 2. 15	1,486	38.6	1.0	3.
leaning, pressing, and repairing.		.04		.03	4, 10	104	2.7	1, 2	1.
overalls.		.37	.3	.32	. 96	575	14.9	2.5	2.
umpers.	. 01	.01	.01	. 01	. 57	14	.4	3, 5	1.
hirts, cotton	.3	. 13	.2	.11	. 46	254	6, 6	4.2	1.
hirts, wool	. 01	. 01	.01	.01	. 92	13	.3	2.5	2.
Indershirts, cotton		. 62	1.3	. 55	. 43	1,656	43.0	3.3	1.
Indershirts, wool		. 62	.7	. 55	. 84	983	25. 5	2.9	2
rawers, cotton	.6	. 22	- 5	. 20	.39	633	16.5	3.5	1
rawers, wool	.1	. 07	.1	.06	.78	130	3. 4	2.5	1.
nion suits, cotton		.40	.4	. 35	. 83	648	16.8	2.9	2.
nion suits, wool	.1	.12	.1	.11	1. 44	141	3.7	24	3.
Sightshirts	1,0	.17	.2	. 15	. 81	353	9.2	2.3	1.
ocks, cotton		1, 94	6.1	1.71	.60	1,234 3,246	32. 1 84. 4	3.0	1.
oeks, wool.	.9	. 44	.8	.39	. 52	815	21. 2	8.2	2
oeks, silk	.04	.03	.04	. 02	. 61	70	1.8	2.4	1.
hoes, high	2.6	4. 48	2.3	3.96	1.73	3,392	88.1	2.9	ã.
hoes, low	.4	. 50	.4	. 44	1. 25	971	25. 2	1.6	1.
hoe repairing		. 17		.15		557	14.5		1.
hoe shines	. 01	0003	. 01	. 0003	. 05	1	. 03	26.0	1.
ubber boots	. 01	.01	.01	. 01	1, 91	29	.8	1.0	1.
ouse slippers		. 03	. 03	. 03	. 90	128	3.3	1.1	
pats and leggings	.1	. 13	.1	.11	1, 52	294	7.6	1.1	1
abbers	.2	.11	.1	.10	. 65	570	14.8	1.1	
reticsloves and mittens, leather, dress.	.01	. 02	.01	.02	1. 56	48	1.2	1.0	1.
loves and mittens, cotton	.1	.04	.04	.04	. 88	160 384	10.0	1. 2 1. 2	1.
loves and mittens, wool	.2	. 10	.2	.09	. 46	669	17.4	1.2	
ollars	. 003	,001	.003	.001	. 23	6	.2	2.2	
ies	.1	. 02	.04	.01	. 32	114	3.0	1.7	
andkerchiefs	.2	.02	.2	. 02	. 09	176	4.6	4.9	
ufflers and scarfs	. 01	. 01	. 01	. 01	.77	30	.8	1.0	
Ol LOLD - a con a	.7	. 14	.7	. 12	.18	1,360	35. 3	2.1	
elts	.02	. 01	. 02	. 01	. 32	49	1,3	1.5	
mbrellas	.002	. 002	.001	.002	1.17	6	.2	1.0	1.
ocketbooks	.001	.0002	. 001	. 0002	. 15	4	.1	1.3	
atches and jewelry	2 4	. 08	9.0	. 07	74	1 000	2.5		3.
ompers	3. 4 2. 2	2. 51 1. 60	3.0	2, 22	.74	1,966 1,539	51.1	6.7	4
nderwaists	.9	. 27	.8	1.41	.74	1, 169	40.0	3.0	4.
etticoats	1.5	.86	1.3	77	. 57	1,306	33. 9	4.4	2
ther clothing		2. 01	1, 0	1.78	. 01	1,979	51. 4	1. 1	3.
		- OA		4.10		2,010	GAS X		100
Total					-			-	-

QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING.
MAN'S FAMILY IN ONE YEAR—Continued.

Male children 4 and under 8 years of age (3,674 families).

		Al	ll famili	es.		Fa	milies p	urchasi	ng.
Article.	Average number of articles per family.	Average cost per family.	Average number of articles per person.	Average cost per person.	Average cost per article.	Num- ber of fami- lies pur- chas- ing.	Per cent of all families.	Average number of articles per family.	Average cost per family.
Hats, felt. Hats, straw. Caps Suits, wool. Suits, wool. Suits, cotton. Coats (separate). Pants (separate), wool. Pants (separate), cotton. Overcoats. Mackinaws. Raincoats. Sweaters and jerseys. Cleaning, pressing, and repairing. Overalls. Jumpers. Shirts, cotton. Shirts, wool. Shirts, wool. Shirts, wool. Undershirts, wool. Drawers, cotton. Undershirts, wool. Union suits, cotton. Union suits, cotton. Union suits, cotton. Socks, silk. Shoes, silk. Shoes, low. Socks, silk. Shoes, low. Shoe repairing. Shoe shines. Rubber boots. House slippers. Spats and leggings. Rubbers. Arctics. Gloves and mittens, leather, dress. Gloves and mittens, leather, work. Gloves and mittens, cotton. Collars. Ties. Handkerchiefs. Mufflers and scarfs. Garters. Belts. Suspenders. Umbrellas. Pocket books. Watches and jewelry. Dresses. Rompers. Underwaists. Petticoats. Other clothing.	.3 1.0 2.2 .02 .3 .6 .4 .03 .03 .4 .1.0 .02 3.0 .03 .8 .1 .7 .1 1.6 .2 .3 .5 10.9 .2 .01 3.3 .6 .1 .1 .04 .7 .1 .1 .04 .7 .1 .1 .04 .7 .1 .1 .04 .7 .1 .1 .04 .7 .1 .1 .04 .7 .1 .1 .04 .7 .1 .1 .04 .7 .1 .1 .05 .03 .03 .03 .03 .03 .03 .03 .03 .03 .03	\$0. 56 . 28 . 70 3. 04 3. 14 . 05 . 54 2. 28 . 18 . 11 . 91 . 96 . 96 . 96 . 92 1. 74 . 04 . 03 . 37 . 11 . 33 . 38 1. 43 . 27 . 28 . 38 3. 32 . 15 . 10 . 10 . 13 . 08 . 04 . 08 . 11 . 12 . 12 . 13 . 14 . 15 . 10 . 10	0. 4	\$0. 49	\$1. 11 .71 5. 40 1. 41 2. 32 1. 37 .92 6. 39 5. 37 3. 61 2. 31 .99 .80 .58 1. 09 .47 .84 .89 1. 57 .70 2. 59 1. 55 .70 2. 59 1. 12 .72 1. 60 .89 .80 .81 .82 .83 .84 .89 .84 .89 .80 .81 .82 .83 .84 .89 .80 .81 .80 .81 .82 .83 .84 .84 .89 .80 .80 .81 .82 .84 .84 .89 .80 .80 .80 .80 .80 .80 .80 .80	1,326 2,321 1,562 2,030 47 548 828 1,277 109 107 1,248 1,300 31 2,017 58 86 968 187 151 2,038 2,242 87 3,597 248 8 3,639 1,458 2,440 278 130 1,676 174 396 13 7,017 4 396 11 10 558	36. 1 24. 0 63. 2 42. 5 55. 3 1. 3 22. 5 33. 4 3. 0 2. 9 34. 0 2. 9 34. 0 2. 9 35. 4 4. 1 22. 3 5. 4 4. 1 22. 3 5. 7 7 7 14. 7 23. 8 97. 9 6. 8 2. 9 3. 0 3. 0 3. 0 3. 0 3. 0 4. 2 2. 5 4. 1 2. 1 3. 5 4. 1 2. 1 3. 5 4. 1 3. 1 4. 1 3. 1 4. 1 3. 1 4. 1 3. 1 4. 1 3. 1 4. 1 3. 1 4. 1 4. 1 5. 1 5. 1 6. 1 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1. 4 1. 2 1. 6 1. 3 4. 0 1. 7 2. 2 2. 6 1. 1 1. 1 1. 2 2. 7 2. 6 5. 5 2. 2 2. 3 3. 4 2. 4 2. 9 2. 2 3. 4 2. 2 3. 4 1. 1 1. 1 1. 2 2. 3 3. 4 1. 1 1. 1 1. 1 1. 2 2. 3 3. 4 4. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1	\$1.51111.000.000.000.000.000.000.000.000.
Total		35. 71		31.31		******			

QUANT

Hats, fe Hats, st Caps...
Suits, w Suits, co Coats (s Pants (i Pan

Under Other QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING. MAN'S FAMILY IN ONE YEAR-Continued.

Male children 8 and under 12 years of age (2,872 families).

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1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.1

Total of the State of		AI	l familie	es.		Fa	milies p	urchasi	ng.
Article.	Average number of articles per family.	Average cost per family.	Average number of articles per person.	Average cost per person.	Average cost per article.	Number of families purchasing.	Per cent of all families.	Average number of articles per family.	Average cost per family.
Hats, felt	0.3	\$0.36 .13	0.3	\$0.31 .11	\$1.21 .91	664 337	23. 1 11. 7	1.3	\$1. 1.
ans	1.6	1.11	1.4	. 97	.71	2,386	83. 1	1.9	1.
uits, wool	.8	6.78	.7	5. 91	8, 12	1,845	64.2	1.3	10.
nits cotton	.4	1.47	.3	1.28	3.92	596	20.8	1.8	7.
oats (separate)ants (separate), wool	. 02	. 04	. 02	. 03	2.11	32	1.1	-1.7	3.
ants (separate), wool	.6	1.03	.5	. 90	1.82	743	25. 9	2.2	3.
ants (separate), cotton		1.41	.9	1. 23 1. 39	1.30 7.43	1, 245 569	43. 3 19. 8	2.5	3.
ackinaws	.1	.74	.1	.64	6.74	283	9. 9	1.1	7.
aincoats		.19	.04	. 17	3.89	132	4.6	1.1	4.
weaters and jerseys		1.10	.4	. 95	2.54	1,030	35. 9	1.2	3.
eaning, pressing, and repairing		.05		.04	******	117	4.1	******	1.
veralls	.7	.78	.6	.68	1.15	867	30. 2	2.2	2.
mpers		3. 46	4.4	3.01	.92	18 2,528	88.0	1.9	1.
irfs, cotton	5.1	. 09	.1	.08	1.32	98	3.4	2.0	2.
irts, silk	.004	.01	.003	.01	1.72	6	.2	1.8	3.
ndershirts, cotton	. 5	. 28	.5	. 25	. 53	554	19.3	2.8	1.
dershirts, wool	.1	.06	. 05	. 05	1.03	72	2. 5	2.3	2.
awers, cotton	.5	. 27	.4	. 24	. 54	514	17.9	2.8	1.
awers, wool	.1	. 05	.1	. 05	.91	1 000	2. 3 63. 0	2.5	2.
nion suits, cotton	1.8	1.75 .30	1.6	1. 52	. 97 1. 85	1,808 210	7.3	2.9	4.
nion suits, wool		.20	.2	. 17	.94	299	10. 4	2.0	1.
ghtshirts	.4	.30	.3	. 26	.77	515	17.9	2.1	1.
eks, cotton		3.72	9.7	3. 24	. 33	2,817	98. 1	11.4	3.
eks, wool	.1	. 10	.1	. 09	.79	134	4.7	2.8	2
oes, high		11. 13	3.2	9. 69	3.05	2,843	99.0	3.7	11.
oes,low	.5	. 83 2. 55	.5	. 73 2. 22	1.53	899 2, 466	31. 3 85. 9	1.7	2.
pe, repairing	. 01	.001	.01	. 001	.10	2, 400	.2	5. 4	2
bber boots	.1	. 16	. 05	. 14	2.89	145	5. 0	1.1	3
use slippers	.1	. 07	1	. 07	. 99	192	6.7	1.1	1.
ats and leggings	. 01	. 01	.01	. 01	1.04	29	1.0	1.0	1.
ibbers	.8	. 67	.7	. 58	. 82	1,425	49.6	1.6	1.
ctics	.04	.08	.04	. 07	1.84	107 357	3.7	1.2	2.
oves and mittens, leather, dress. oves and mittens, leather, work.	.1	.14	.01	.12	.83	22	.8	1.3	1.
oves and mittens, cotton	.4	. 15	.4	. 13	.35	676	23.5	1.8	
oves and mittens, wool	.5 .	. 26	.4	. 23	. 58	848	29.5	1. 5	
lars	.3	. 06	.3	. 05	. 18	263	9. 2	3.6	
S		.41	1.1	. 35	. 31	1,353	47. 1	2.8	
ndkerchiefs	2.9	. 27	2.5	. 24	. 09	1, 143	39.8	7.2	
filers and scarfs	.03 1.8	.02	1.6	.02	.71	73 2, 221	2. 5 77. 3	1.2	
rtersts.	.2	.09	.2	.08	.40	517	18.0	1.3	116
spenders	.5	.15	.4	. 13	.30	796	27. 7	1.7	100
abrellas	. 02	.03	. 02	.03	1.26	64	2.2	1.1	1.
cketbooks	.01	.005	. 01	.004	. 30	36	1.3	1.2	
tches and jewelry		. 14		. 12		141	4.9	******	2.
derwaists	.4	.13	.4	.11	. 29	420	14.6	3.0	1
her clothing	******	. 17.	•••••	. 15	******	3:6	13. 4	******	1.
Total	1	45. 25		39. 39					

QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING.

MAN'S FAMILY IN ONE YEAR—Continued.

Male children 12 and under 15 years of age (1,665 families).

		Al	l familie	es.	,	Fa	milies p	urchasi	ng.
Article.	Average number of articles per family.	Average cost per family.	Average number of arti- cles per per- son.	Average eost per person.	Average cost per article.	Num- ber of fami- lies pur- chas- ing.	Per cent of all families.	Average number of articles per family.	Average cost per family.
Hats, felt Hats, straw Caps Sults, wool Suits, cotton Conts (separate) Pants (separate) Pants (separate), cotton Overcoats Mackinaws Raincoats Sweaters and jerseys Cleaning, pressing, and repairing Overalls Jumpers Shirts, cotton Shirts, wool Shirts, wool Shirts, wool Orawers, cotton Undershirts, wool Undershirts, wool Union suits, cotton Union suits, cotton Union suits, cotton Socks, eston Socks, silk Shoes, ligh Shoes, ligh Shoes, ligh Shoes high Shoes and mittens, leather, dress Hoves and mittens, leather, work Hoves and mittens, leather, work Hoves and mittens, cotton Socks and mittens, leather, work Hoves and mittens, leather, dress Hoves and mittens, leather, work Hoves and mittens, leather, work Hoves and mittens, leather, dress Hoves and mittens, leather, work Hoves and mittens, leather, lea	1.7 .9 .02 .5 .9 .1 .2 .1 .5 .62 4.5 .1 .04 .3 .03 1.8 .2 .2 .3 10.7 .2	\$0. 28 .08 1. 41 9. 56 1. 74 .04 1. 12 1. 34 1. 23 1. 21 .06 .67 .08 3. 55 .08 .01 .28 .05 .01 .28 .05 .08 .01 .28 .05 .08 .01 .28 .05 .08 .01 .28 .05 .08 .08 .09 .09 .09 .09 .09 .09 .09 .09	0.2 11.6 9 2 02.5 8 11 2 1.4 .5 .02 4.1 .05 .005 .4 .03 .3 .03 1.6 .2 .2 .2 9.8 .1 .01 3.0 .4 .05 .02 .4 .4 .05 .05 .05 .02 .1 .01 3.0 .4 .1 .05 .05 .02 .6 .04 .2 .2 .2 .02 .4 .4 .4 .03 .3 .1 .1 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05	\$0. 25     .07     1. 29     8. 78     1. 60     .04     1. 93     1. 22     1. 11     .05     .62     .03     3. 26     .07     .01     .26     .04     .21     .39     .20     .178     .39     .20     .101     .108     .101     .108     .101     .108     .101     .108     .101     .108     .101     .108     .101     .108     .101     .108     .101     .108     .101     .108     .101     .108     .101     .108     .101     .108     .101     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .109     .108     .108     .108     .109     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108     .108	\$1.57 1.15 10.12 6.78 2.27 2.19 1.57 10.08 7.35 1.21 7.79 1.51 2.23 65 1.34 68 1.22 1.03 2.15 1.11 89 36 82 2.15 1.11 1.12 1.25 1.36 1.22 1.08 2.15 1.11 1.12 1.25 1.36 1.12 1.25 1.36 1.12 1.25 1.36 1.12 1.25 1.36 1.12 1.25 1.36 1.44 1.37 1.76 1.44 1.43 1.29	257 102 1,514 1,184 317 23 452 6676 213 264 97 97 655 72 2411 1,522 1,522 1,522 25 1,089 1,646 17 229 1,637 87 9 1,646 1447 1,484 188 79 79 33 37 51 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 451 1,016 830 851 851 851 851 851 851 851 851 851 851	15. 4 6. 1 90. 9 71. 1 19. 0 1. 4 27. 1 19. 0 1. 4 27. 1 19. 0 1. 4 20. 6 12. 8 15. 9 5. 8 39. 3 4. 3 24. 7 1. 3 16. 9 1. 7 13. 5 1. 5 1. 5 1. 5 1. 5 1. 5 1. 5 1. 5 1	1.1 1.1 1.9 1.3 1.3 1.3 1.0 1.0 1.1 1.0 1.7 1.7 1.7 2.5 2.0 2.5 2.0 2.7 2.1 1.8 1.9 1.9 2.9 2.9 2.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	\$1.25.44.6.22.2.6.3.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.4.6.6.2.2.2.2
Total		51. 23	1.25	47.08				Yes.	

[534]

QUANTI

Hats, felt.
Hats, strav
Laps.....
Lats, strav
Laps....
Lats, strav
Laps....
Lats, sep
Lats, (sep
Lants (sep
Lackinaw
Raincoats.
Sweaters &
Leaning,)
Dveralls...
Lumpers...
Shirts, wo
Hairts, wo
Hairts, sill
Landershirts, s

Cnion sui Pajamas... Nightshir Socks, cot Socks, wo Socks, sill Shoes, hig Shoes, lov Shoe repa Shoe shin Rubber b House slij Spats and Eubbers... Arctics.... Gloves an Gloves an Gloves an Gloves an

undershir Undershir Undershir Drawers, Orawers, Union sui Union sui

Collars...
Ties...
Handker
Mufflers a
Garters..
Belts...
Suspende
Umbrella
Pocketbo
Watches
Other ele

To

QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING-MAN'S FAMILY IN ONE YEAR-Continued.

Male children 15 years of age and over (1,352 families).

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11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.5 11.1.3.9.2.6.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 11.1.3.9.2.6 

		Al	l familie	as.		Fai	milies p	urchasii	ng.
Article.	Average number of articles per family.	Average cost per family.	Average num- ber of arti- cles per per- son.	Average cost per person.	Average cost per article.	Num- ber of fami- lies pur- chas- ing.	Per cent of all families.	Average number of articles per family.	Average cost per family.
lats, felt	.3 1.7 1.3 .2 .02 .4 .1 .5 .4 .6 .2 .2 .3 .3 .1 .2 .0 .2 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3	\$1.90 1.91 26.50 1.96 1.73 1.32 7.11 .52 2.01 .43 5.60 .55 .57 .19 .20 .39 .20 .39 .20 .65 15.78 .124 .39 .20 .65 .15 .20 .20 .30 .30 .30 .30 .30 .30 .30 .3	0.5 1.4 1.1 1.1 1.4 1.3 1.4 1.4 1.5 1.6 1.2 1.2 1.2 1.3 1.1 1.4 1.5 1.6 1.6 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	\$1. 59 1. 60 22. 11 1. 64 1. 44 1. 10 5. 93 1. 68 1. 48 1. 67 1. 29 36 4. 67 32 46 48 18 19 17 1. 103 2. 38 19 3. 17 1. 17 1. 103 2. 58 3. 19 3. 19 3	\$3.00 2.19 1.14 20.22 111.39 2.03 8.35 7.42 4.36 2.03 1.22 4.75 85 1.81 2.84 1.50 1.12 31 1.74 70 4.98 3.65 2.04 1.16 2.09 4.75 1.11 2.84 1.50 1.12 31 1.20 4.75 1.85 1.86 1.67 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1	646 303 1,081 1,146 178 20 363 339 438 142 91 511 297 445 137 1,270 112 101 318 52 304 48 855 170 174 1,311 106 275 1,185 176 56 80 32 561 437 105 288 437 1,008 1,144 909 132 888 287 167	47. 8 42. 8 40. 0 81. 8 80. 0 81. 2 82. 1 32. 4 10. 5 32. 9 10. 1 93. 9 83. 3 7. 5 23. 5 36. 6 63. 2 97. 0 7. 8 20. 3 98. 3 97. 6 13. 0 41. 5 97. 6 13. 0 41. 5 97. 8 14. 5 15. 9 16. 5 17. 8 18. 9 19.	1.3 2.1 1.5 1.6 2.1 1.0 2.3 1.1 2.3 1.6 2.7 2.8 2.1 2.1 2.3 2.1 2.3 2.1 2.3 2.3 2.1 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3	\$3.96 2.33 31.22 31.49 6.44 5.22 1.98 6.54 2.1.98 5.47 7.44 4.35 2.49 4.35 2.35 3.15 2.35 3.15 2.35 3.15 3.15 3.15 3.15 3.15 3.15 3.15 3

QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING.

MAN'S FAMILY IN ONE YEAR—Continued.

QUA

House and Apron Coats Coats

Rainc Sweat

Sweat Sweat Furs a Cleani Pettic Pettic Corse Brass Corse Comb

Comb Unior Unior Unior Shirts

Shirts

Chem Draw Draw Night Night Pajar Kimo Kimo Stock Stock Stock Shoes

Shoes Shoe Shoe

House Spats Rubl Arcti Glov Glov Glov Colla Colla Ties Ribl Hand

Scarl Gart Belts

Hair net Sani

Umb Para Han Wat Othe

Male dependents (128 families).

		A	ll famili	es.		Fa	milies p	urchasi	ng
Article	Average number of articles per family.	Average cost per family	ber of arti- cles	Average cost per person.	Average cost per article.	Number of families purchasing.	Per cent of all families.	Average number of articles per family.	Average cost per family.
Hats, felt. Hats, straw. Caps. Suits, wool. Suits, cotton. Pants (separate), wool. Pants (separate), cotton Overcoats Sweaters and jerseys. Cleaning, pressing, and repairing. Overalls. Jumpers. Shirts, cotton. Shirts, wool. Undershirts, cotton. Undershirts, cotton. Undershirts, wool. Drawers, cotton. Union suits, cotton Union suits, cotton Union suits, wool. Pajamas. Night shirts. Sockets, cotton. Socks, silk. Shoes, high. Shoes, ligh. Shoes high. Shoe shines. House slippers. Rubbers. Arctics. Gloves and mittens, leather dress. Gloves and mittens, leather, work. Gloves and mittens, cotton.	.1 .2 .3 .03 .1 .1 .1 .1 .1 .02 .1 .6 .2 .5 .1 .4 .4 .6 .3 .1 .9 .1 .1 .9 .1 .1 .02 .1 .1 .02 .1 .1 .02 .1 .1 .02 .1 .1 .02 .02 .03 .04 .04 .04 .04 .04 .04 .04 .04 .04 .04	\$\$0.76 .11 .26 .5.87 .36 .50 .49 .2.02 .47 .14 .22 .03 .1.79 .24 .57 .41 .51 .33 .56 .29 .02 .13 .1.25 .20 .03 .4.02 .23 .74 .44 .44 .40 .02 .02 .03 .40 .07 .05 .20 .33 .29 .40 .07 .05 .20 .33 .29 .40 .40 .65 .20 .33 .29 .40 .65 .20 .33 .29 .20 .33 .20 .33 .20 .34 .07 .05 .20 .35 .20 .36 .37 .38 .38 .39 .39 .39 .39 .30 .30 .30 .30 .30 .30 .30 .30 .30 .30	.1 .2 .3 .03 .1 .2 .1	\$\$0.74 .11 .25 5.74 .35 5.74 .48 1.97 .46 .13 .22 .03 1.75 .23 .56 .40 .50 .20 .32 .54 .28 .02 .13 1.22 .20 .03 3.93 .23 .72 .17 .21 .13 .03 .09 .02 .02 .05 .20 .33 .29 .04 .07 .05 .16 .03 .004 .05 .14	\$2. 87 2. 04 1. 10 20. 88 11. 50 3. 78 2. 96 17. 20 3. 75 1. 78 2. 00 1. 11 2. 36 1. 37 3. 70 1. 50 1. 50 1. 51 4. 51 3. 74 11 1. 75 1. 16 4. 50 2. 45 83 45 1. 17 54 1. 17 54 1. 18 99 23 68 60 1. 42 50	32 7 22 30 4 113 14 15 16 8 8 7 1 1 6 7 9 34 8 8 22 5 1 1 6 7 9 1 1 3 6 5 5 5 4 3 1 6 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1	25. 0 5. 5 17. 2 23. 4 3. 1 10. 2 11. 7 12. 5 6. 3 5. 5 8 52. 3 4. 7 28. 9 7. 0 26. 6 6. 3 17. 2 3. 9 4. 7 61. 7 8. 6. 3 17. 2 3. 9 3. 6. 3 17. 2 3. 9 4. 7 18. 8 3. 9 19. 10. 9 11. 7 11. 7 12. 5 10. 9 11. 7 12. 5 13. 9 14. 7 15. 5 16. 3 17. 2 17. 8 18. 9 19. 10. 9	1.1 1.0 0 1.4 1.2 1.0 0 1.5 1.0 1.0 2.2 2 1.9 2.3 2.4 2.0 2.7 7.4 2.0 2.7 7.4 2.0 2.7 7.4 2.0 1.0 1.5 1.2 1.0 1.5 1.2 1.0 1.5 1.2 1.0 1.0 1.5 1.2 1.0 1.0 1.5 1.2 1.0 1.0 1.5 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	\$3. 65 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Wive	8 (12,0	094 fam	ilies).	11		1		_
Hats Veils Zaps Suits, cotton Suits, wool. Suits, silk Skirts, cotton Skirts, wool Skirts, wool Skirts and blouses, cotton. Vaists and blouses, wool Vresses, cotton Dresses, wool Dresses, silk.	199 35 14	\$5. 14 .08 .03 .66 .5.00 .78 1.11 .79 1.92 .02 2.02 2.02 1.59 1.81 2.71	100	\$5. 14 .08 .03 .66 5. 00 .20 .78 1.11 .79 1. 92 .02 2. 02 2. 02 1. 59 1. 81	\$4. 42 . 57 . 78 15. 65 24. 97 16. 81 2. 73 6. 29 1. 58 3. 36 4. 29 1. 58 3. 36 1. 29 1. 58 1. 58	9, 261 1, 086 345 505 2, 378 143 2, 567 1, 963 6, 805 62 4, 202 4, 202 1, 554 2, 142	76. 6 9. 0 2. 9 4. 2 19. 7 1, 2 21. 2 16. 2 11. 8 56. 3 . 5 34. 7 27. 8 17. 7	1. 5 1. 6 1. 3 1. 0 1. 0 1. 0 1. 4 1. 1 1. 1 2. 2 1. 2 1. 2 1. 4 1. 7	\$6. 71 . 95 1. 04 15. 87 25. 42 16. 93 3. 69 6. 83 6. 66 3. 42 3. 95 5. 83 5. 85 14. 06 15. 27

[536]

QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING-MAN'S FAMILY IN ONE YEAR-Continued.

Wives (12,094) families)—Concluded.

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Aver.

age cost per family.

.71 .95 .04 .87 .42 .95 .69 .83 .66 .83 .66 .83 .85 .06 .27

	-	Al	l familie	es.		Fai	nilies p	urchasii	ng.
Article.	Average number of articles per family.	Average cost per family.	Average number of arti- cles per per- son.	Average cost per person.	Average cost per article.	Number of families purchasing.	Per cent of all families.	Average number of articles per family.	Aver age cost per fami- ly.
House dresses, bungalow aprons, and wrappers	2,0	\$3.12	2.0	\$3,12	\$1,55	8,535	70.6	2,9	34, 4
		.54	1.0	.54	. 52	3,837	31.7	3, 2	1.6
Apronscoats and cloaks, cotton	. 05	.77	.05	.77	16, 36	558	4.6	1.0	16.6
costs and cloaks, wool	.3	6.15	.3	6.15	23.61	3,060	25.3	1.0	24.3
Raincoats	.01	.04	.01	.04	7.75	64	.5	1.0	7.7
weaters and jerseys, cotton	.04	.15	.04	.15	3,69	467	3.9	1.0	3.8
weaters and jerseys, wool weaters and jerseys, silk	:01	.36	.1	.36	5.97	724 92	6.0	1.0	6.0
urs and boas	.03	.57	.03	.07	9. 14 18. 24	350	2.9	1.0	19.6
cleaning, pressing, and repairing.	.00	.42	.00	.42	10.21	1,893	15.7	1.1	2.
etticoats, cotton	.8	1.02	.8	1.02	1. 20	5, 465	45.2	1.9	2.5
etticoats, wool	. 01	. 02	.01	.02	1.66	108	.9	1.4	2.2
etticoats, silk	.1	. 29	.1	.29	4.18	801	6.6	1.0	4.
orsets	.9	2.13	.9	2, 13	2.35	8,384	69.3	1.3	3.
rassieresorset covers and camisoles	1.0	.21	1.0	.21	.62	1,561 4,860	12, 9 40, 2	2.6	1.6
ombinations, cotton	.4	.49	.4	.49	1.10	2,045	16.9	2.6	2.
ombinations, silk	.01	.03	.01	.03	2,62	77	.6	1.6	4.6
Inion suits, cotton	1.1	1, 25	1.1	1.25	1.13	5,032	41.6	2.7	3.0
nion suits, wool	.1	.21	.1	. 21	2.58	489	4.0	2.0	5.
nion suits, silk	. 001	.003	.001	. 003	3.27	7 000	.1	1.6	5.
hirts, cotton	1.8	.64	1.8	.64	1,49	5,928 263	49.0	3.6	1.
hirts, woolhirts, silk	.004	.01	.004	.01	1.95	25	.2	1.8	3.
hemises, cotton	.1	.13	.1	.13	. 93	618	5.1	2.7	2.
hemises, silk	.003	.01	.003	.01	2, 82	17	.1	1.9	5.
rawers, cotton	.9	.57	.9	.57	. 60	3,902	32.3	2.9	1.
rawers, wool	.03	.04	.03	.04	1.32	188	1.6	2.0	2.
ightdresses, cotton	1, 2	1, 46	1, 2	1.46	1. 25	6, 195	51.2	2.3	2.
lightdresses, silk.	.001	.01	.001	.01	5.48	14	.1	1.3	7.
ajamas, cotton	. 01	.01	.01	.01	1.72	67	.6	1.5	2.
imonos, cotton	.1	. 31	.1	.31	2, 23	1,440	11.9	1.2	2.
imonos, wool		. 06	.01	.06	5. 13	132	1.1	1.0	5.
imonos, silk	5.5	2,00	5.5	2.00	7.39	53 11,362	93.9	1.0	7.
tockings, wool	. 05	.04	.05	.04	.83	242	2.0	2.3	1.
tockings, silk	.8	.94	.8	.94	1, 22	3,523	29.1	2.6	3.
noes, high	1.3	7.18	1.3	7.18	5.34	10, 593	87.6	1.5	8.
noes, low		1.81	.5	1.81	3.65	4,974	41.1	1.2	4.
hoe repairing		. 91		.91	10	6, 850 195	56.6		1.
noe shines	.1	.01	.1	.01	1.60	3, 214	1.6 26.6	6.5	1.
pats and gaiters	.02	.03	.02	.03	1.71	205	1.7	1.0	1.
ubbers	3	.30	.3	.30	. 91	3,613	29. 9	1.1	
reties. loves and mittens, kid	.003	.01	. 003	.01	2.24	38	.3	1.0	2.
loves and mittens, kid	.3	. 59	.3	. 59	1.88	3,275	27.1	1.2	2.
loves and militens, corton		.15	.2	.15	.75	1,942	16. 1 3. 0	1.2	
loves and mittens, woolloves and mittens, silk	.2	.25	.2	.25	1.00	2,395	19.8	1.3	1.
ollars	.1	.07	.1	.07	.66	753	6. 2	1.6	1.
ollar and cuff sets	.1	. 05	.1	.05	.99	513	4.2	1.2	1.
les	01	. 004	. 01	.004	.47	80	.7	1.4	
ibbons. andkerchiefs		.03	4.1	.03	******	6,328	3.5	7 0	1.
arfs	4.1	.61	.02	.61	1.61	223	52. 3 1. 8	7.9	1.
arters	1 .1	.03	.1	.03	.21	997	8.2	1.5	
airpins, fancy combs, ornaments.	.02	.01	. 02	.01	. 57	248	2.1	1.1	
nets, etc		.30		.30		9, 263	76.6		
mbrolles		. 23		. 23	9 01	1,522	12.6	1.0	1.
mbrellasarașols	.01	.22	:01	.22	2. 01 2. 45	1,319	1.1	1.0	2.
andbags, purses, etc	3	.44	.3	.44	1,66	2,929	24. 2	1.1	1.
landbags, purses, etc		.70		.70		833	6.9		10.
ther clothing		.39		.39		2, 535	21. C		1.
Total		1	1		3				

QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING.
MAN'S FAMILY IN ONE YEAR-Continued.

QUANT

Watches Romper Underw Other cl

Hats... Veils...

Caps... Suits, o Suits, si Skirts, Skirts,

Skirts, Waists Waists Waists Dresses Dresses

House and various and various and various and various coats a Rainco Sweate Sweate Sweate Sweate Furs ar Cleanin Pettico Combii Union Union Shirts, Shirts, Chemi Drawe Drawe

Drawe Nighte Nighte Pajan Kimo

Kimo Kimo Stock Stock

Stock Shoes Shoes Shoe Shoe Hous Spats Rubi

Arcti

Female children under 4 years of age (3,683 families).

Families prophedus.		Al	l familie	es.		Fai	milies p	ourchasi	ng,
Article.	Average number of articles per family.	Average cost per family.	Average number of articles per person.	Average cost per person.	Average cost per article.	Number of families purchasing.	Per cent of all families.	Average number of articles per family.	Average cost per family.
Hats Veils. Caps. Caps. Skirts, cotton. Skirts, wool. Waists and blouses, cotton. Dresses, cotton. Dresses, wool. Dresses, silk. House dresses, bungalow aprons,	.003 6.3 .1 .02	\$0. 48 .003 1. 14 .001 .001 .002 5. 26 .16 .06	0.3 .01 1.0 .003 .0002 .003 5.6 .1	.002 4.66 .14 .05	\$1.60 .48 .96 .46 3.00 .54 .83 2.07 2.48	817 24 2,391 3 1 4 3,304 192 67	22. 2 .7 64. 9 .1 .03 .1 89. 7 5. 2 1. 8	1. 4 1. 1 1. 8 4. 0 1. 0 3. 0 7. 1 1. 5 1. 3	\$2, 17 . 52 1, 75 1, 83 3, 00 1, 61 5, 86 3, 05 3, 34
and wrappers. Aprons. Costs and cloaks, cotton Costs and cloaks, wool. Raincosts. Sweaters and jersey, cotton. Sweaters and jerseys, wool. Sweaters and jerseys, wool. Sweaters and jerseys, silk. Furs and boas Cleaning, pressing, and repairing. Petticoats, cotton. Petticoats, cotton. Petticoats, silk. Combinations, cotton. Union suits, cotton Union suits, wool. Union suits, silk Shirts, cotton Shirts, wool Stockings, cotton Stockings, cotton Stockings, silk Shoes, low Shoe repairing House slippers Spats and gaiters Rubbers Arctics Gloves and mittens, kid Gloves and mittens, wool Gloves and mittens, wool Gloves and mittens, wool Gloves and mittens, silk Collars Collars Collar and cuff sets Fies Ribbons Handkerchiefs Garters Belts	3 .003 .2 .3 .004 .03 .3 .1 .001 1.6 .8 .01 .01 .1,7 .1 .1,5 .002 .1 .1 .002 .03 .3 .1 .001 .01 .01 .01 .02 .03 .03 .03 .01 .03 .03 .03 .03 .03 .03 .03 .03 .03 .03	.03 .18 .79 1.62 .01 .30 .71 .01 .12 .04 1.27 .42 .003 .01 .07 .11 .001 .60 .67 .01 .03 .03 .05 .11 .03 .001 1.83 .42 .04 4.03 .56 .11 .05 .04 .09 .01 .03 .03 .00 .01 .03 .03 .00 .01 .03 .03 .01 .00 .00 .00 .00 .00 .00 .00 .00 .00	.1 .4 .2 .3 .003 .2 .3 .004 .03 .1 .002 .14 .7 .01 .01 .1.5 .1 .1 .02 .0005 .8 .7 .1 .01 .01 .03 .1 .01 .03 .1 .01 .03 .1 .01 .03 .003 .0	.53 .59 .01 .002 .47 .06 .75 .002 .07	.50 .44 3.21 4.98 3.46 1.70 2.46 3.62 .49 1.01 1.32 .54 .81 .82 .25 .30 .31 1.38 82 .25 .30 .31 .58 1.16 .90 1.75 .58 1.74 2.25 .58 1.74 2.25 .58 1.74 2.25 .58 1.74 2.25 .58 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.74 2.25 1.29 1.29 1.29 1.29 1.29 1.29 1.29 1.29	56 278 794 1,073 10 545 854 15 20 115 2,225 556 5 20 454 117 11 8 1,723 1,852 3 145 230 51 23 1,852 3,073 797 98 3,177 1,047 1,723 1,852 3,073 1,852 3,073 1,852 3,073 1,852 3,073 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 1,049 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Hairpins, fancy combs, orna- ments, nets, etc	.003	.001 .02 .003 .01 .004	.002 .01	.0005 .02 .003 .01 .003	1. 07 .75 .40	11 30 10 38 30	.3 .8 .3 1.0	1. 0 1. 1 1. 2	2.31 1.00 8.1

[538]

QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING-MAN'S FAMILY IN ONE YEAR-Continued.

Female children under 4 years of age (3,683 families)-Concluded.

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1016 (000)		Al	l familie	98.		Families purchasing.				
Article.	age num- ber of articles	Average cost per family.	Average number of articles per person.	Average cost per person.	Average cost per article.	Num- ber of fami- lies pur- chas- ing.	Per cent of all families.	Average number of articles per family.	Average cost per family.	
Watches and jewelry Rompers Underwaists. Other clothing.  Total	.6	\$0. 28 . 39 . 26 2. 08	.5 .8	\$0. 25 .35 .23 1. 84	\$0.69	279 554 1,164 2,048	7. 6 15. 0 31. 6 55, 6	3.8	\$3.66 2.60 .82 3.74	

#### Female children 4 and under 8 years of age (3,588 families).

				-					
Hats	0.9	\$1.82	0.8	\$1.59	\$1.91	2,323	64.7	1.5	\$2.79
Veils	.003	.003	.003	.002	. 83	8	.2	1.4	1.15
Cans	.5	. 50	.5	. 44	. 95	1,450	40.4	1.3	1.23
Suits, cotton	.0003	. 001	.0002	.001	2.50	1	. 03	1.0	2, 50
Snits, silk	.0003	.001	.0002	. 001	5.00	1	. 03	1.0	5.00
Skirts, cotton		. 02	.02	. 01	. 84	42	1.2	1.7	1.42
Skirts, wool	.01	. 02	.01	. 02	2.05	32	.9	1.3	2.68
Skirts, silk	.001	.001	. 0005	.001	2.13	2	.1	1.0	2. 13
Waists and blouses, cotton	.1	.11	.1	.09	.95	165	4.6	2.4	2.28
Waists and blouses, wool		.01	.004	.01	2. 19	10	.3	1.6	3. 50
Waists and blouses, wool		.001	.0005	.001	2. 50	2	.1	1.0	2.50
		6.51	4.9		1.16		92.1	6.1	7.06
Dresses, cotton				5.71		3,305		1.6	4.58
Dresses, wool	.3	. 79	.2	.70	2.95	622	17.3		
Dresses, silk	. 05	. 16	.04	. 14	3.32	140	3.9	1.2	4.06
House dresses, bungalow aprons,									0.00
and wrappers	.1	.07	.1	.06	- 56	127	3.5	3.7	2.09
Aprons	.3	. 15	.3	. 14	. 51	305	8.5	3.6	1.81
Coats and cloaks, cotton		. 94	.2	. 82	4. 63	655	18.3	1.1	5.12
Coats and cloaks, wool	-4	2.41	.3	2.11	6.64	1, 162	32.4	1.1	7.42
Raincoats	. 05	. 14	.04	. 12	3.08	150	4.2	1.1	3.33
Sweaters and jerseys, cotton	.1	. 33	.1	. 29	2. 25	472	13. 2	1.1	2.49
Sweaters and Jerseys, wool	.2	. 64	.2	. 56	3.37	621	17.3	1.1	3.72
Sweaters and jerseys, silk	.002	. 01	.001	. 01	4.07	6	.2	1.0	4.07
Furs and boas	.1	. 21	.05	. 19	4.08	155	4.3	1.2	4.90
Cleaning, pressing, and repairing.	1	. 10	1	.08	2,00	224	6.2	1	1.54
Petticoats, cotton	2.1	1. 16	1.9	1.02	. 55	2.177	60.7	3.5	1.92
Petticoats, wool.	1	. 11	1.1	. 10	.94	193	5.4	2.2	2.04
Petticoats, silk		.001	.0005	.001	2.50	2	.1	1.0	2. 50
Combinations, cotton	.001					67	1.9	4.0	2. 13
		. 04	.1	. 03	. 53			2.6	2. 39
Union suits, cotton		. 90	.9	. 79	.91	1,350	37.6		3.76
Union suits, wool		. 25	.1	- 22	1.65	234	6.5	2.3	
Shirts, cotton		. 48	1.2	. 42	.35	1,531	42.7	3.2	1.14
Shirts, wool		. 13	.1	.11	. 85	221	6.2	2.5	2.09
Shirts, silk	.001	.001	. 0005	. 001	2.50	1	. 03	2.0	5.00
Chemises, cotton	. 03	.01	.03	. 01	. 47	30	.8	3.7	1.74
Drawers, cotton	3.3	1.16	2.9	1.02	.35	2,378	66.3	5.0	1.75
Drawers, wool	.1	. 10	.1	.08	. 79	164	4.6	2.7	2.12
Drawers, silk	.001	.002	. 001	.001	1.10	2	.1	2.5	2.74
Nightdresses, cotton	1.1	.77	1.0	. 68	. 68	1,702	47.4	2.4	1.63
Nightdresses, silk	,001	.001	. 001	. 001	1.33	2	.1	1.5	2.00
Pajamas, cotton	.1	. 08	.1	. 07	. 88	159	4.4	2.1	1.87
Kimones, cotton	.03	. 05	. 03	. 04	1.46	106	3.0	1.1	1.58
Kimonos, wool	.01	.02	.01	.01	2.61	22	.6	1.0	2.73
Kimonas, sılk	. 0003	.001	. 0002	. 0005	-	1	.03	1.0	2.00
Stockings, cotton	9.3	2, 85	8.2	2, 50	.30	3,514	97.9	9.5	2, 91
Stookings, Cotton	9. 3	. 09		. 08	.67	189	5.0	2.8	1.88
Stockings, wool	.1		.1				.9	2.2	2, 22
Stockings, silk	. 02	. 02		. 02	. 99	33	00.0		7. 93
Shoes, high	3.1	7. 82	2.7	6. 85	2.54	3,537	98.6	3.1	
Shoes, low	.8	1. 39	.7	1. 22	1.71	1,801	50.2	1.6	2.77
Shoe repairing		- 98		. 86		1,977	55.1		1.77
Shoe shines	.01	. 001	.004	. 0004		3	.1	6.0	. 60
House slippers.	.1	. 09	-1	. 08	. 97	303	3.4	1.1	1.06
Spats and paitors	02	. 02	.01	. 01	- 95	56	1.6	1.1	1.02
Kubberg	. 6	- 44	.6	.38	. 69	1,681	46.9	1.3	. 98
Arctics	. 03	. 05	.03	.04	1.61	103	2.9	1 1.1	1.73

QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING. MAN'S FAMILY IN ONE YEAR—Continued.

Female children 4 and under 8 years of age (3,588 families)—Concluded.

Femilies pareliability		A	ll famili	es.		Families purchasing.				
Article.	Average number of articles per family.	Average cost per family.	Average number of articles per person.	Average cost per person.	Average cost per article.	Number of families purchasing.	Per cent of all families.	Average number of articles per family.	Aver.	
Gloves and mittens, kid Gloves and mittens, cotton Gloves and mittens, wool Gloves and mittens, silk. Collars Collar and cuff sets Ties Ribbons. Handkerchiefs. Scarfs Garters. Belts. Halrpins, fancy combs, ornaments, nets, etc Sanitary supplies Umbrellas. Parasols. Hand bags, purses, etc Watches and jewelry. Rompers.	.01 .01 .02 .02 .1 .1.8 .05	\$0. 11 .09 .18 .01 .005 .01 .01 .1 13 .21 .05 .34 .02 .01 .0001 .04 .03 .03 .03 .03 .04	.1 .2 .3 .01 .01 .01 .02 .02 .04 1.6 .04 .03 .03 .05	\$0.09 .08 .16 .01 .004 .01 .01 .99 .18 .04 .30 .01 .01 .003 .03 .03 .02 .14	1. 14 . 94 . 48	323 679 931 44 28 35 47 2,359 1,132 156 2,622 134 84 1 118 115 150 208 99	9. 0 18. 9 25. 9 1. 2 . 8 1. 0 1. 3 65. 7 31. 5 4. 3 73. 1 3. 7 2. 3 . 03 3. 3 3. 2 4. 2 5. 8	1.1 1.4 1.3 1.1 1.4 1.2 1.6 	\$1.11 -44 -66 -77 -66 -9 -5 -5 -1.77 -66 1.00 -44 -44 -42 -22 -22 -1.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20 -6.20	
Underwaists. Other clothing Total	1.4	.40 .31	1.3	. 35 . 27 32. 53	.28	1,636 731	45. 6 20. 4	3.2	1.5	

### Female children 8 and under 12 years of age (2,912 families).

	1	1		-	1		1	1 1	
Hats	1.0	\$2. 23	0.9	\$1.95	\$2.13	2,068	71.0	1.5	\$3, 15
Veils	.01	.01	. 004	.01	1.86	12	.4	1.3	2, 33
Caps		. 51	.4	. 44	1.04	1,453	39, 6	1.2	1, 29
Suits, cotton		. 005	. 001	.004	2.73	5	.2	1.0	2.73
Suits, wool		.01	. 001	.01	4.40	3	.1	1.7	7.33
Suits, silk	. 001	. 003	. 001	. 003	4. 25	1	. 03	2.0	8, 50
Skirts, cotton	.1	.10	.1	. 09	1.13	164	5.6	1.6	1.82
Skirts, wool	. 05	.12	. 04	.10	2.44	106	3.6	1.4	3, 31
Skirts, silk	. 001	. 001	.001	.001	1. 33	3	.1	1.0	1. 33
Waists and blouses, cotton	4 00	.45	.4	.39	1. 01	531	18.2	2.4	2, 46
Waists and blouses, wool	.01	.04	. 01	.03	2.92	28	1.0	1.3	3. 86
Waists and blouses, wool	. 003	.004	.002	.003	1.38	5	.2	1.6	2. 21
Dresses, cotton	4.5	6. 85	3.9	5, 96	1.54	2,685	92. 2	4.8	7. 43
Dresses, wool	.4	1.58	.3	1.38	4. 07	794	27.3	1.4	5, 81
Dresses, silk	.1	. 33	.1	. 29	5, 00	178	6.1	1.1	5.45
House dresses, bungalow aprons,	D 17004	.00	1 110	. 20	0.00	110	0. 1	1. 1	Us 38
and wrappers	.1	.08	.1	. 07	. 67	135	4.6	2.7	1.88
Aprons	12	.11	2	.10	.54	231	7.9	2.7	1.44
Coats and cloaks, cotton	12	.95	1101	. 83	6, 26	394	13.5	1.1	7. 01
Coats and cloaks, wool	4.00	3, 44	.3	2, 99	8. 67	1,018	35. 0	1.1	9. 84
Raincoats	100	119	.05	.16	3. 55	147	5.0	1.0	3, 72
Sweaters and jerseys, cotton	100	.40	.1	.34	2, 65	381	13. 1	1.1	3, 02
Sweeters and icreave wool	270	73	:2	.63	3, 69	527	18.1	1.1	4. 02
Sweaters and jerseys, wool Sweaters and jerseys, silk	.002	.01	.002	.01	4, 35	7			4. 35
Furs and boas	.04	25	.002	.22			.2	1.0	6, 89
Cleaning, pressing, and repairing.	.09	. 13	.04		5. 56	105	3.6	1.2	1. 79
Petticoats, cotton	1.8		1 0	.11	*******	207	7.1	******	2.00
Potticosts, wool		1. 21	1.6	1.05	. 66	1,768	60.7	3.0	
Petticoats, wool	.1	. 08	.1	. 07	1.06	108	3.7	2.0	2.14
Petticoats, silk	. 001	.002	. 001	. 002	2.89	2	.1	1.0	2.89
Description	. 02	. 01	.01	. 01	. 87	25	.9	1.8	1.56
Brassieres	. 003	.002	. 003	. 002	. 59	5	.2	2.0	1.18
Corset covers and camisoles	.01	.01	. 01	.01	.47	13	.4	3. 2	1.48
Combinations, cotton	100	. 08	100	.07	. 69	104	3. 6	3.1	2.16
Union suits, cotton	1.0	1, 05	.9	. 92	1.03	1,188	40.8	2.5	2.58
Union suits, wool	11,100	. 22	.1	.19	1.74	169	5.8	2.2	3.81
Shirts, cotton	1.4	.48	1.2	. 42	. 35	1,226	42.1	3.3	1.14
Shirts, wool	.1.0	. 08	.1	.07	. 85	100	3.4	2.6	2, 19

[540]

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Shirts, sil Chemises Drawers, Drawers, Drawers, Nightdres Nightdres Pajamas, Kimonos, Kimonos, Stockings Stockings Stockings Shoes, hig Shoes, lov Shoe repa Shoe shin House slip Spats and Rubbers. Arctics Gloves an

Ribbons...
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Gloves an Gloves an Gloves an Collars.... Collar and

Ribbons.

Hats....
Veils...
Caps...
Suits, cotts, woo
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Waists and Waists and Waists and Waists and Dresses, c Dresses, y Dresses, s House dre and was

QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING-MAN'S FAMILY IN ONE YEAR—Continued.

Female children 8 and under 12 years of age (2,912 jamilies)—Concluded.

	1		-						7
nod souline a		Al	l familie	es.		Fa	milies p	urchasii	ng.
Article.	Average number of articles per family.	Average cost per family.	Average number of articles per person.	Average cost per person.	Average cost per article.	Num- ber of fami- lies pur- chas- ing.	Per cent of all families.	Average number of articles per family.	Average cost per family.
Shirts, silk. Chemises, cotton. Drawers, cotton. Drawers, wool. Drawers, silk Nightdresses, cotton Nightdresses, silk. Pajamas, cotton. Kimonos, cotton. Kimonos, wool. Stockings, cotton. Stockings, silk.	.04 2.9 .1 .0003 1.0 .001 .1 .04 .004 9.1 .1 .02 3.0	\$0.001 .02 1.20 .06 .0003 .81 .002 .05 .06 .01 2.99 .09 .02 9.38 1.73 1.63	.001 .03 2.5 .1 .0003 .9 .001 .04 .03 .004 7.9 .1 .02 2.6 .8	\$0.001 .01 1.05 .05 .0003 .70 .001 .04 .05 .01 2.61 .08 .02 8.17 1.50 1.42	\$0.50 .43 .42 .83 1.00 .78 1.25 .94 1.69 2.94 3.72 1.05 3.16 2.00	2 34 1,915 86 1 1,357 1 80 94 2,881 131 47 2,883 1,584 2,177	.1 1 2 65.8 3.0 .03 46.6 .03 2.7 3.2 .4.5 1.6 99.0 54.4 74.8	2. 5 3. 2 4. 4 1. 0 2. 2 4. 0 1. 8 1. 1 1. 1 1. 1 9. 2 2. 7 1. 5 3. 0 1. 6	\$1. 24 1. 37 1. 83 2. 01 1. 00 1. 74 5. 00 1. 73 1. 87 3. 18 3. 03 1. 98 1. 54 9. 47 3. 17 2. 18
Shoe shines.  House slippers.  Spats and gaiters.  Rubbers.  Rictics.  Robers and mittens, kid.  Robers and mittens, cotton.  Robers and mittens, wool.  Robers and mittens, silk.  Roblar and cuff sets.  Res.  Ribbons.  Landkerchiefs.  Rearfs.  Ratters.	.01	.001 .12 .01 .69 .05 .17 .13 .24 .03 .01 .04 .1.78 .38 .09 .37	.01 .1 .01 .8 .03 .1 .3 .4 .03 .02 .02 .1 .1 .1 .6	.001 .11 .01 .60 .04 .14 .11 .21 .03 .01 .03 .1.55 .33 .08 .32	. 69 1.18 .93 .76 1.67 1.17 .38 .58 .77 .41 .77 .48 .10 1.02 .20 .39	9 266 299 1,702 77 350 668 856 94 54 41 140 2,504 1,351 206 2,219 202	.3 9.1 1.0 58.4 2.6 12.0 22.9 29.4 3.2 1.9 1.4 4.8 86.0 46.4 7.1 76.2 6.9	5. 2 1. 1 1. 0 1. 6 1. 2 1. 2 1. 4 1. 2 1. 4 1. 3 1. 7	. 46 1. 33 . 96 1. 19 1. 95 1. 38 . 57 . 80 . 91 9. 98 . 79 2. 07 . 82 1. 28 1. 28 1
Hairpins, fancy combs, ornaments, nets, etc	.1 .02 .1	.02 .001 .07 .03 .06 .33 .38 .29	.1 .02 .1	.02 .0004 .06 .03 .05 .28 .33 .25	1. 23 1. 29 . 60	177 2 157 66 242 230 1,180 612	6. 1 . 1 5. 4 2. 3 8. 3 7. 9 40. 5 21. 0	1. 1 1. 0 1. 2	. 35 . 75 1. 38 1. 33 1. 4. 12 . 95 1. 37
Total		45, 14		39. 30					
Female children	12 and	l under	15 yea	rs of ag	e (1,68	82 fami	lies).		
lats.  veils aps. aps. uits, cotton. uits, wool uits, silk kirts, cotton. kirts, wool kirts, silk Vaists and blouses, cotton. Vaists and blouses, wool Valsts and blouses, silk	1. 2 .01 .4 .01 .03 .001 .2 .1 .01 1.0	\$3.14 .01 .50 .03 .34 .01 .30 .40 .05 1.20	1. 1 .01 .4 .01 .02 .001 .2 .1 .01 .9 .02	\$2.90 .01 .47 .03 .31 .01 .28 .37 .04 1.11	\$2. 64 1. 52 1. 23 5. 47 12. 57 7. 50 1. 38 3. 09 4. 69 1. 21 2. 46 2. 75	1, 304 9 578 10 44 2 2222 177 16 683 25 44	77. 5 .5 34. 4 .6 2. 6 .1 13. 2 10. 5 1. 0 40. 6 1. 5 2. 6	1.5 1.1 1.2 1.0 1.0 1.0 1.7 1.2 1.1 2.5 1.4	\$4. 05 1. 69 1. 47 5. 47 12. 85 7. 50 2. 29 3. 78 4. 98 2. 97 3. 54 4. 13
Dresses, cotton Dresses, wool. Dresses, silk House dresses, bungalow aprons, and wrappers	3.1 .4 .1	6. 34 2. 26 1. 00	2.9 .4 .1	5. 86 2. 08 . 93	2, 02 5, 60 7, 21	1, 475 558 204 123	87. 7 33. 2 12. 1 7. 3	3. 6 1. 2 1. 1 2. 1	7. 23 6. 80 8. 27

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Aver.

age cost per family.

\$1.18

. 48 . 68 . 73 . 60 . 99 . 52 1. 71 . 65 1. 05 . 44 . 25 1. 20 2. 82 2. 02 . 88 1. 50

QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING.
MAN'S FAMILY IN ONE YEAR—Continued.

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and wr prons... oats and cats and aincoat weaters weaters weaters urs and

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imonos, imonos, ockings ockings ockings ockings ockings ock ings ock ings

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Female children 12 and under 15 years of age (1,682 families)-Concluded.

Vamilies purchasing		Al	l familie	es.		Fai	milies p	urchasir	ng.
Article.	Average number of articles per family.	Average cost per family.	Average number of articles per person.	Average cost per person.	Average cost per article.	Number of families purchasing.	Per cent of all families.	Average number of articles per family.	Average cost per family.
Aprons. Coats and cloaks, cotton Coats and cloaks, wool. Raincoats Sweaters and jerseys, cotton Sweaters and jerseys, wool. Sweaters and jerseys, wool. Sweaters and jerseys, silk. Furs and boas. Cleaning, pressing and repairing. Petticoats, cotton. Petticoats, cotton. Petticoats, silk. Corsets. Brassieres. Corset covers and camisoles. Combinations, cotton. Combinations, silk. Union suits, cotton. Union suits, wool. Shirts, cotton. Shirts, wool. Shirts, silk. Chemises, silk. Chemises, silk. Drawers, silk. Drawers, silk. Drawers, cotton. Drawers, wool. Drawers, wool. Drawers, silk. Stockings, cotton. Kimonos, cotton. Kimonos, cotton. Kimonos, cotton. Kimonos, silk. Stockings, silk. Stockings, wool. Stockings, silk. Shoes, high. Shoes, high. Shoes high. Shoes high. Shoes and mittens, kid. Hoves and mittens, kid. Hoves and mittens, cotton. Hoves and mittens, cotton. Hoves and mittens, silk. Collars. Collar and cuff sets Fies. Libbons. Liandkerchiefs. Carfs. Larters. Larters	.4 .05 .1 .2 .001 .04	\$0.11 1.01 5.20 .21 .41 1.08 .03 .33 .18 1.26 .04 .01 .12 .25 .05 1.14 .19 .52 .06 .003 1.10 .05 .002 .96 .003 1.10 .05 .002 .96 .06 .06 .07 .02 .09 .04 .10 .12 .02 .002 .002 .002 .002 .002 .0	.2 .1 .4 .04 .1 .2 .01 .03 .003 .3 .001 .2 .3 .001 .1 .0 .003 .1 .002 .2 .1 .001 .9 .003 .04 .001 .9 .003 .001 .001 .002 .001 .003 .003 .003 .003 .003 .003 .003	\$0. 10 .94 4. 80 .19 .38 .99 .03 .30 .17 I. 16 .04 .01 .37 .01 .11 .23 .304 .106 .18 .48 .44 .002 .05 .04 .002 .05 .04 .09 .02 .04 .09 .02 .02 .03 .04 .09 .02 .04 .09 .02 .04 .09 .02 .05 .04 .09 .02 .05 .04 .09 .09 .09 .09 .09 .09 .09 .09	\$0.55 8.00 12.21 4.26 3.17 4.58 5.41 8.95 1.29 1.97 1.23 4.90 1.08 2.07 3.10 1.08 2.07 1.28 2.11 3.88 3.00 3.50 2.49 1.28 2.11 3.88 3.95 7.70 1.28 2.11 3.88 3.10 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50	138 194 673 777 196 379 54 138 55 180 12 155 180 2 2 741 80 833 3 5 2 48 8 33 1,032 39 1 1 803 30 1 1,657 51 172 1,658 948 1,317 10 150 22 943 163 33 375 401 121 72 588 103 11 72 588 103 11 72 588 103 11 72 11 72 72 73 11 72 72 73 11 72 72 73 11 72 72 73 11 72 72 73 11 72 72 73 11 72 72 73 11 72 72 73 11 72 72 73 11 72 72 73 11 72 72 73 11 72 72 73 11 72 72 73 11 72 72 73 11 72 73 11 72 72 73 11 72 72 73 73 73 73 74 74 74 74 74 74 74 74 74 74 74 74 74	8.2 11.5 40.0 4.6 11.7 22.5 3.2 9.3 62.0 2.3 3.2 20.7 9.2 10.7 44.1 4.8 49.5 2.1 2.9 61.4 4.5 2.3 47.7 4.5 5.5 3.0 10.2 11.7 4.5 5.5 3.0 10.0 11.7 11.7 11.7 11.7 11.7 11.7 11	2. 4 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	\$1. 8. 8. 12. 4. 4. 3. 4. 6. 10. 1. 1. 1. 1. 1. 1. 2. 4. 4. 1. 2. 2. 4. 1. 2. 2. 3. 3. 3. 3. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Handbags, purses, etc	.6	.97 .22 .33	. 5	.90 .21 .30	. 39	234 372 363	13. 9 22. 1 21. 6	2.6	7.

QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING-MAN'S FAMILY IN ONE YEAR-Continued.

KING.

Female children 15 years of age and over (1,581 families).

series (Although		All	familie	es.		Far	nilies p	urchasii	ng.
Article.	Average number of articles per family.	Average cost per family.	Average number of articles per person.	Average cost per person.	Average cost per article.	Number of families purchasing.	Per cent of all families.	Average number of articles per family.	Average cost per family.
lats.  (eils	.2 .1 .3 .02 .5 .4 .2 2.3 .04	\$9. 69 .10 .25 1.00 7. 66 .24 1. 26 1. 86 *.94 3. 65 .13 3. 56 6. 07 6. 23 6. 17	1, 8 .1 .1 .3 .01 .4 .3 .1 1.8 .03 .7 1.4	\$7. 55 ,08 ,19 ,78 5,97 ,18 ,98 1. 45 ,73 2. 85 ,10 2. 77 4. 73 4. 86 4. 81	\$4. 14 . 54 1. 36 14. 13 23. 29 14. 99 2. 38 5. 17 5. 70 1. 59 3. 54 4. 26 4. 26 3. 27 11. 72 12. 53	1, 477 146 247 98 439 20 494 427 212 1, 044 43 663 1, 092 657 587	93. 4 9. 2 15. 6 6. 2 27. 8 1. 3 31. 2 27. 0 13. 4 66. 0 2. 7 41. 9 69. 1 41. 6 37. 1	2.5 2.0 1.2 1.1 2.3 1.7 1.3 1.2 3.5 1.3 2.7 1.3	\$10. 38 1. 11 1. 59 16. 15 27. 59 18. 74 4. 04 6. 90 7. 02 5. 53 4. 79 8. 79 15. 06 16. 63
and wrappers.  Frons  ats and cloaks, cotton  ats and cloaks, wool.  Ats and perseys, cotton  Ats and perseys, silk.  Ats and perseys, silk.  Ats and perseys, silk.  Att coats, wool.  Atticoats, wool.  Atticoats, wool.  Atticoats, silk.  Atticoats, silk.  Atticoats, silk.  Atticoats, silk.  Atticoats, silk.  Atticoats, silk.  Atticoats, wool.  Atticoats, silk.  Atticoats, wool.  Atticoats, silk.  Atticoats, silk.  Atticoats, wool.  Atticoats, woo	.3 .1 .6 .04 .1 .3 .03 .1 .1 .7 .02 .1 .1 .6 .4 .2 .0 .0 .1 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.65 .21 1.64 11.96 .21 .55 1.56 .20 2.55 .54 2.01 .03 .48 2.75 .23 1.42 1.31 .07 1.32 .15 .01 1.00 .04 .30 .02 1.18 .03 .02 1.18 .03 .03 .04 .04 .04 .05 .06 .06 .06 .06 .06 .06 .06 .06 .06 .06	.4 .2 .1 .5 .63 .1 .2 .02 .1 .1 .3 .3 .1 .5 .1 .00 .03 .9 .02 .01 .02 .01 .02 .01 .02 .01 .03 .02 .02 .01 .03 .04 .00 .05 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	.51 .17 1. 28 9. 32 .17 .43 1. 22 .15 1. 99 .42 1. 57 .23 .21 .57 .06 1. 03 .23 .02 .01 .01 .78 .03 .23 .02 .01 .04 .05 .03 .23 .02 .01 .05 .06 .03 .02 .07 .07 .08 .08 .09 .09 .09 .09 .09 .09 .09 .09 .09 .09	1. 32 .75 13. 13 19. 83 5. 89 7. 48 18. 74 1. 16 1. 53 3. 97 1. 69 .55 71 1. 07 1. 74 11. 12 2. 27 4. 42 .31 1. 53 1. 61 2. 42 .31 1. 41 1. 22 2. 28 1. 41 1. 28 1. 28 1. 41 1. 20 2. 25 2. 28 5. 38 1. 41 1. 20 2. 25 5. 38 1. 40 1. 40 1	294 158 176 776 56 186 382 40 178 267 1, 923 18 165 1, 288 204 870 539 28 600 45 2 989 28 15 136 9 793 20 10 936 7 50 1 217 18 10 1, 411 26 891 1, 548 1, 079 1, 221 83 182 160 843 6 855 279 159	18. 6 10. 0 11. 1 49. 1 3. 5 11. 8 24. 2 2. 5 11. 3 16. 9 64. 7 4. 1 10. 4 81. 5 12. 9 55. 0 34. 1 1. 8 38. 0 2. 8 34. 1 62. 6 1. 8 9. 8. 6 650. 2 1. 3 1. 6 50. 2 1. 3 1. 1 1. 6 89. 2 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 1 1. 7 1. 7	2.7 2.8 1.1 1.2 1.2 1.2 1.1 2.7 1.2 2.0 3.3 3.6 2.4 3.1 5.5 5.1 2.5 3.4 4.1 4.1 2.0 2.1 1.2 2.5 3.4 4.1 2.1 2.1 2.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3	3. 51 2. 14 14. 77 24. 36 6. 60 4. 65 6. 45 7. 85 22. 64 3. 19 3. 11 2. 54 4. 63 3. 38 4. 16 3. 47 5. 19 6. 63 3. 38 3. 47 3. 49 2. 36 2. 27 3. 10 4. 80 2. 25 5. 92 3. 79 1. 67 5. 93 1. 70 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 1. 77 2. 36 2. 77 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2. 78 2.

# QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING. MAN'S FAMILY IN ONE YEAR—Continued.

Female children 15 years of age and over (1,581 families)—Concluded.

		Al	ll famili	es.		Families purchasing.				
Article.	Average number of articles per family.	Average cost per family.	Average number of articles per person.	Average cost per person.	Average cost per article.	Number of families purchasing.	Per cent of all fami- lies.	Average number of articles per family.	Average cost per family.	
Collars Collar and cuff sets Ties Ribbons. Handkerchiefs. Scarfs Garters Belts	8.5 .05	\$0. 22 . 26 . 17 . 42 1. 25 . 13 . 08 . 10	3 .2 .2 .2 .2 .6.6 .04 .3 .1	\$0.17 .20 .13 .33 .97 .10 .07	\$0.58 .91 .62 .15 2.72 .21 .54	243 257 259 426 1,164 72 307 214	15. 4 16. 3 16. 4 26. 9 73. 6 4. 6 19. 4 13. 5	2.5 1.8 1.7 11.5 1.1 2.1 1.4	\$1.4 1.6 1.0 1.5 1.6 2.8 .4	
Hairpins, fancy combs, ornaments, nets, etc. Sanitary supplies. Umbrellas. Parasols. Handbags, purses, etc. Watches and jewelry. Underwaists. Other clothing.	.1	.53 .24 .52 .08 .75 2.81 .03 .34	.2 .02 .4	.41 .19 .40 .06 .58 2.19 .02 .26	2.09 2.82 1.57	1, 175 257 324 42 571 359 39 260	74.3 16.3 20.5 2.7 36.1 22.7 2.5 16.4	1. 2 1. 1 1. 3 2. 1	2.5 3.0 2.0 12.3 1.10 2.0	
Total		123. 97		96. 59						

#### Female dependents (509 families).

Hats	0.4	\$1.64	0.3	\$1.61	\$3.78	165	32. 4	1.3	\$5,06
Veils	.1	.06	.1	.06	. 83	24	4.7	1.5	1, 25
Caps	. 01	.01	. 01	.01	1.61	4	.8	1.0	1.61
Suits, cotton	.01	. 15	. 01	. 14	12, 33	6	1. 2	1.0	12.33
Suits, wool	.1	1.37	.1	1, 35	21, 18	32	6.3	1.0	21, 84
Skirts, cotton	.1	. 25	.1	. 24	2.18	44	8, 6	1.3	2.87
Skirts, wool		. 79	1.1	.77	6, 25	60	11.8	1.1	6, 67
Skirts, silk	. 02	. 16	. 02	. 16	6, 97	12	2.4	1.0	6, 97
Waists and blouses, cotton	. 6	.74	.6	. 73	1, 26	140	27.5	2.1	2,71
Waists and blouses, wool	.004	. 02	.004	. 02	4, 50	2	. 4	1.0	4, 50
Waists and blouses, silk	.2	.64	.2	. 63	3, 97	56	11.0	1.5	5, 81
Dresses, cotton	.3	1.01	.3	.99	2.92	93	18.3	1.9	5, 50
Dresses, wool		. 97	.1	. 95	10, 75	41	8.1	1.1	12.06
Dresses, silk	ii	. 65	ii	. 64	11. 84	25	4.9	1.1	13, 26
House dresses, bungalow aprons,		.00	1.	.02	11.01	20	3. 0	1. 1	10.20
and wrappers	.7	1.18	.7	1.16	1.64	156	30, 6	2.3	3, 86
Anrone	.8	. 40	.8	.39	.51	130	25, 5	3.0	1. 55
Aprons	.03	. 43	.03	. 42	14.66	15	2. 9	1.0	14, 66
Coats and cloaks, wool	.1	2,40	.1	2, 35	21. 79	55	10. 8	1.0	22.18
Paincosts	.004	. 05	.004	. 04	11.50		.4	1.0	11.50
Raincoats Sweaters and jerseys, cotton	.03	.11	.03		3, 59	2		1.0	3, 59
Sweaters and jerseys, cotton	. 03			.11		16	3. 1	1.0	5, 65
Sweaters and jerseys, wool	. 04	. 21	.04	. 21	5. 37	19	3.7		58, 00
Furs and boas	. 01	. 57	.01	. 56	58.00	5	1.0	1.0	
Cleaning, pressing, and repairing	*****	.14		. 14		32	6.3	******	2.30
Petticoats, cotton		. 43	.4	. 42	1.18	115	22.6	1.6	1.91
Petticoats, wool	.1	. 10	.1	. 10	2.03	19	3.7	1.4	2.78
Petticoats, silk	. 01	. 05	.01	. 05	3. 35	6	1.2	1.2	3.91
Corsets	.3	. 55	.2	. 54	2.17	110	21.6	1.2	2.53
Brassieres	.1	. 03	.1	. 03	. 56	12	2.4	2.5	1.41
Corset covers and camisoles	.3	. 17	.3	. 17	.64	61	12.0	2.3	1.45
Combinations, cotton	.1	. 10	.1	10	1.02	19	3.7	2.7	2.73
Combinations, silk	. 004	.01	.004	.01	2.65	1	. 2	2.0	5, 30
Union suits, cotton	.4	. 48	.4	. 47	1.33	84	16. 5	2.2	2.90
Union suits, wool	.1	. 25	.1	. 25	2.92	21	4.1	2.1	6, 11
Bhirts, cotton	.7	. 41	.7	. 41	. 55	139	27.3	2.7	1.51
Shirts, wool	.1	.11	.1	. 11	1.72	16	3.1	2.1	3, 65
Shirts, silk	. 004	. 004	.004	. 004	1,00	1	. 2	2.0	2.00
Chemises, cotton	.1	.10	.1	. 10	.76	25	4.9	2.7	2.08
Drawers, cotton	5	. 36	.5	.36	.66	110	21.6	2.5	1.69
Drawers, wool	.04	.06	.04	.06	1.48	10	2.0	2.0	2.97
Nightdresses, cotton	.5	.64	.5	. 63	1. 25	128	25, 1	2.0	2, 55
Pajamas, cotton	.002	.002	.002	.002	.98	1	. 2	1.0	. 98

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QUAN

Kimon Kimon Stockir Stockir Shoes, Shoes, Shoe re Spats a House Spats a Rubbe Arctics Gloves Gloves Collars Collar Ties... Ribbo Handla Scarfs.

Garter Belts. Hairpi men Sanita Umbr Paraso Hand Watel Other QUANTITY AND COST OF CLOTHING PURCHASED BY THE AVERAGE WORKING-MAN'S FAMILY IN ONE YEAR—Concluded.

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A verage cost per fami-

\$1. 44 1. 60 1. 05 1. 58 1. 69 2. 87 . 74 . 72 1. 48 2. 51 3. 02 2. 08 12. 38 1. 16 2. 05

55. 06 1. 25 1. 61 1. 25 1. 84 1. 84 1. 84 1. 84 1. 86 1. 87 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1. 84 1 Female dependents (509 families)—Concluded.

	die p	A	l famili	es.		Far	milies p	urchasi	ng.
Article.	Average number of articles per family.	Average cost per family.	Aver- age num- ber of arti- cles per per- son.	Average cost per person.	Average cost per article.	Number of families purchasing.	Per cent of all families.	Average number of erticles per family.	Average cost per family.
Kimonos, cotton Kimonos, wool. Stockings, cotton Stockings, wool. Stockings, silk Shoes, low Shoes, low Shoe repairing. Shoes shines House slippers. Spats and gaiters. Rubbers. Arctics. Gloves and mittens, kid. Gloves and mittens, cotton. Gloves and mittens, wool. Gloves and mittens, silk. Collars. Collar and cuff sets. Ties. Ribbons. Handkerchiefs Scarfs. Garters Belts. Hairpins, fancy combs, ornaments, nets, etc. Sanitary supplies. Umbrellas. Parasols. Handbags, purses, etc. Watches and jewelry.	.01 2.9 .1 .2 .8 .2 .04 .2 .01 .1 .01 .1 .05 .1 .02 .604         	\$0. 12 .06 1. 05 .11 .22 3. 38 .67 .31 .004 .39 .02 .11 .02 .18 .10 .04 .09 .03 .01 .002 .28 .03 .01 .002 .28 .03 .01 .002 .02 .02 .03 .03 .04 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05	.05 .01 2.8 .1 .2 .8 .2 .01 .1 .01 .1 .1 .04 .1 .1 .02 .004	\$0. 12 .06 1. 03 .10 .22 3. 31 .66 .30 .004 .38 .01 .11 .02 .18 .10 .04 .09 .03 .01 .002 .28 .03 .01 .002 .28 .01 .002	\$2. 44 4. 14 . 36 1. 06 1. 26 4. 32 3. 42 . 10 1. 71 1. 94 . 92 1. 95 1. 84 . 76 . 99 1. 01 . 66 . 60 . 50 . 15 1. 26 . 18 . 50 . 1. 56 2. 00 1. 94	20 7 336 22 24 273 84 117 1 103 4 58 5 5 46 59 23 38 17 9 1 6 138 9 24 27 17 103 103 103 103 103 103 103 103	3.9 1.4 66.0 4.3 4.7 53.6 16.5 23.0 2.2 20.2 20.2 20.2 1.6 4.5 7.5 7.5 3.3 1.8 4.7 1.8 4.7 23.4 1.4 2.4 2.6 7.7 2.8	1.3 1.0 4.4 2.3 3.8 1.5 1.2 20.0 1.1 1.0 1.1 1.0 1.1 1.0 1.2 2.0 6.8 1.2 1.4 1.0	\$3. 05 4. 14 1. 59 2. 45 4. 73 6. 30 6. 30 4. 07 1. 34 2. 00 1. 92 1. 94 1. 00 1. 95 2. 04 2. 01 1. 04 1. 05 1. 05 1. 05 1. 05 1. 04 1. 06 1. 05 2. 04 2. 06 2. 14 6. 48

## Wholesale Prices of Certain Food Commodities at Anchorage, Alaska.

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1.587 sheet

Rice . Barley Rye... Wheat Beans, Beans, Salt... Soy . Sugar, Tea... Beef.. Eggs... Milk... Cotton Yarn, Silk, ri Cloth. Shirtin Cedar : Pig iro Petrole Coal... Charco Seed of Paper Dried Oil cal

Barley Rye... Wheat Beans, Salt... Soy... Sugar, Saké... Tea... Beef...

Eggs. Milk. Cotton Yarn, Silk. r

Cloth, Shirtin Kaiki

Cedar Pig iro Petrol

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IN VIEW of the exaggerated reports as to the prices of supplies in Alaska, the mine inspector of the Territory publishes in his report for 1921 the wholesale cost in warehouse at Anchorage of some principal commodities. This list, which is given below, was furnished by the Alaskan Engineering Commission on November 21, 1921.

Wholesale prices of principal commodities in warehouse at Anchorage, Alaska, Nov. 21,

1921.	
Apples evaporated, 25-pound box	\$3.15
Apples, canned, case of 6 No. 10 cans	3 40
Apricots, evaporated, 25-pound box	7.90
Apricots, canned, case of 6 No. 10 cans.	4.35
Baking powder, pound	. 38
Beans, Ilma, two 50-pound sacks	8 10
Beans, navy (small white), two 50-pound sacks	9 00
Beef, corned, case of 12 No. 2 cans.	7.00
Beets, fresh, pound	05
Beets, canned, case of 6 No. 10 cans	3. 40
Berries:	
Blackberries, case of 24 No. 2 cans	4.90
Cranberries, case of 6 No. 10 cans.	7 05
Loganberries, case of 24 No. 2 cans.	7. 20
Raspherries, case of 24 No. 2 cans	7.40
Strawberries, case of 24 No. 2 cans	6. 50
Butter (in brine), 50-pound keg.	24 75
Cabbage, canned, case of 6 No. 10 cans	2 75
Cheese, pound	. 30
Coffee, ground, pound	. 40
Crackers, case of 24 No. 2 cans	9. 00
Figs, evaporated, 25-pound box	2. 75
Flour, hard wheat, bale of two 49-pound sacks	5. 00
Flour, soft wheat, bale of two 49-pound sacks.	4, 50
Ham, cured, all brands, pound	. 40
Meats:	. 10
Beef, fresh frozen, full quarters only, pound	. 17
Mutton, fresh frozen, halves only, pound.	. 18
Pork, fresh frozen, halves only, pound	. 20.
Oil, Wesson, case of 12 medium-size cans	6. 30
Peaches, evaporated, 25-pound box	4. 50
Peaches, canned, case of 24 No. 2½ cans	6. 50
Pears, evaporated, 25-pound box	4. 50
Pears, canned, case of 24 No. 24 cans	6. 50
Potatoes, Irish, sacks, per pound	
Rice, per hundredweight.	7.40
Soap, Ivory, case of 100 10-ounce cakes.	13 50
Soap, Lennox, case of 100 cakes.	5. 50
Soups, Campbell's, case of 48 No. 1 cans	
Sugar, brown, per hundredweight	8. 55
Sugar, granulated (white cane), per hundredweight	9.00
bugar, granulated (white cane), per nundredweight	0.00

## Prices of Principal Commodities in Japan, 1912 to 1920.

A REPORT issued by the Japanese Department of Finance 1 gives (pp. 174, 175) the average prices of the principal commodities in use in Japan for the years 1912 to 1920. The prices prevailing in the last half of 1920 show a sharp decline in most cases from the prices in effect the first half of 1920 when the cost of living reached its highest point.

[546]

<sup>&</sup>lt;sup>1</sup> Japan. Department of Finance. The twenty-first financial and economic annual of Japan, 1921. Tokyo [1922].

The following tables show the average prices and the index numbers of principal commodities in the chief markets of the country, 1912 to 1920:

## AVERAGE PRICES OF PRINCIPAL COMMODITIES IN JAPAN, 1912 TO 1920.

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7. 05 7. 20 7. 40 6. 50

2. 75 . 30 . 40 ). 00 2. 75 5. 00 . 50 . 40

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[Yen at par=43.9 cents; koku=4.96005 bu.; kwan=8.26733 lbs. (avoir.); kin=1.32277 lbs. (avoir.); shō=1.58722 qts.; tan=about 35 ft. in length; kama= 40 yds.; one jŏ Mino contains 48 sheets, Hanshi, 20 sheets; shime=100 jō.; soku=10 jō; bu=1.431665 lines (line is usually  $\frac{1}{12}$  in.)].

Commodity.	Unit.	1912	1913	1914	1915	1916
		Yen.	Yen.	Yen.	Yen.	Yen.
Rice	Koku	20, 23	20, 97	15.35	12, 28	13, 10
Barley	do	8.38	7.92	6, 25	4.65	4, 96
Rve	do	12.59	11.93	8.34	7.55	7, 59
Wheat	do	11.31	11.76	10.84	11.44	11.18
Beans, soja	do	10.93	12, 11	11, 23	8.98	10.32
Beans, red	do	14.68	15. 91	16. 10	12.13	12. 41
Saltsov	do	4.54	4. 84	4. 86	4.66	5. 76
Soy	100 kin	25. 48 20. 97	25, 93 20, 33	25. 57 20, 69	25. 13 21. 46	24, 36 22, 54
Saké	Koku	48, 12	51, 92	46, 18	43, 17	47. 41
Tea	. 100 kin	47, 94	46, 08	46, 69	48.88	49. 30
Beef	do	30.08	29, 03	29.55	28, 52	30, 31
Eggs	. 100	2.57	2.78	2.76	2.50	2, 58
Milk	Shō	. 35	. 33	.32	.31	. 32
Cotton, ginned	. 100 kin	34.17	34. 93	30.65	27, 61	41.58
Yarn, cotton			47.67	37.32	35. 82	48. 43
Silk, raw	do	799. 86 54. 05	819, 25 50, 64	825.85 47.00	792. 57 47. 75	1, 092, 29 54 10
Cloth, white cotton		. 44	. 47	.38	.35	. 45
Shirting, white	Kama	6, 30	6, 35	6.36	6, 26	7.35
Kaiki, (silk tissues)	do	5. 13	5. 25	4. 85	5, 19	5, 62
Cedar square timber	. 4 yds	6.19	6.30	6.38	6.36	6. 98
Pig iron	. Kwan	.31	. 30	.30	. 46	. 76
Petroleum		3.92	4. 29	4.16	4.31	5, 80
Coal		7.32	7.88	8, 22	7.39	8, 95
Firewood		. 28 1. 15	1. 21	. 28	. 27	1. 22
Seed oil	Koku		41. 44	1. 15	1. 13 42. 88	51. 50
Paper (Hanshi)	Soku	. 29	.29	. 29	.31	.34
Dried sardines	. 10 kwan	4.06	4, 05	3, 56	3, 21	3. 57
Oil cake	do	2.44	2, 55	2, 43	2, 24	2.52
Commodity.	Unit.	1917	1918	1919	First	Last
					half.	half.
		Yen.	Yen.	Yen.	Yen.	Yen.
Rice		19. 25	31.73	45, 54	50. 07	37. 41
Barley		8. 15	14. 73	16 99	18, 48	11. 86
Rye				16, 22		
		11.97	21.40	27. 17	33. 23	19.07
	do	11. 97 13. 52	21. 40 22. 38	27. 17 23. 16	33. 23 26. 90	19. 07 18. 00
Beans, soja	do	11. 97 13. 52 13. 61	21. 40 22. 38 18. 35	27. 17 23. 16 22. 07	33. 23 26. 90 27. 74	19. 07 18. 00 21. 21
Beans, soja Beans, red	do	11. 97 13. 52 13. 61 16. 35	21. 40 22. 38 18. 35 21. 37	27. 17 23. 16 22. 07 31. 93	33. 23 26. 90 27. 74 38. 36	19, 07 18, 00 21, 21 28, 76
Beans, soja Beans, red Sov	dodododododododo	11. 97 13. 52 13. 61	21. 40 22. 38 18. 35	27. 17 23. 16 22. 07	33. 23 26. 90 27. 74	19. 07 18. 00 21. 21 28. 76 1 4. 43
Beans, soja Beans, red Bears, red Bears, white	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo.	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75	33, 23 26, 90 27, 74 38, 36 8, 08	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10
Beans, soja Beans, red Salt Soy Sugar, white	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27	33, 23 26, 90 27, 74 38, 36 8, 08 54, 78 50, 58 113, 82	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96
Beans, soja Beans, red Salt Soy Sugar, white Saké	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27	33, 23 26, 90 27, 74 38, 36 8, 08 54, 78 50, 58 113, 82 126, 67	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74
Beans, soja	dodododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 8 57. 16
Beans, soja	dododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07	21. 40 22. 38 18. 35 21. 37 6, 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 16 3 59. 96
Beans, soja Beans, red Beans, red Beans, red Beans Bea	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 . 77	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 16 3 59. 96
Beans, soja Beans, red Beans, red Soy Sugar, white Baké Fea Beei Begs Wilk Cotton, ginned	dododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 36 58. 25	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 .45 84. 81	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 56 83. 21	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 .77 92. 14	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 193. 96 131. 74 8 57. 16 8 59. 96 59. 55
Beans, soja Beans, red Beans, red Solt Soy Sugar, white Saké Fea Beef Eggs Milk Jotton, ginned Yarn, cotton Jilk, raw	dododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 90 37. 34 3. 07 .36 58. 25 86. 38	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 .45 84. 81 121. 56	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56 83. 21 176, 02	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 .77 92. 14 183. 79	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 16 3 59. 96 59. 55 108. 08
Beans, soja Beans, red Seans, red Salt Soy Sugar, white Saké Pea Beef Segs Milk Cotton, ginned Yarn, cotton Silk, raw Hemp	dododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 36 58. 25	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 .45 84. 81	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 56 83. 21	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 .77 92. 14	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 193. 96 131. 74 8 57. 16 8 59. 96 59. 55
Beans, soja Beans, red Beans, red Salt Soy Sugar, white Saké Pea Beef Eggs Milk Cotton, ginned Yarn, cotton Silk, raw Hemp Cloth, white cotton	dodododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 36. 58. 25 86. 38 1, 218. 37 67. 06	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 4. 45 84. 81 121. 56 1, 437. 59 81. 33	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56 83. 21 176. 02 2, 041. 71 110. 23 1. 35	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 .77 92. 14 183. 79 2, 611. 90 207. 94 1. 49	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 16 3 59. 96 59. 55 108. 08 1, 355. 20 10. 07
Beans, soja Beans, red Beans, red Salt Soy Sugar, white Saké Fea Beef Eggs Milk Cotton, ginned Yarn, cotton Silk, raw Hemp Cloth, white cotton	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 36 58. 25 86. 38 1, 218. 37 67. 66 10. 94	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 .45 84. 81 121. 56 1, 437. 59 81. 33 .90 15. 77	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56 83. 21 176. 02 2, 041. 71 110. 23 1. 35 24. 70	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 .77 .92. 14 183. 79 2, 611. 90 207. 94 1. 49 21. 68	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 96 68 59. 55 108. 08 1, 355. 20 10. 07 (4)
Beans, soja Beans, red Beans, red Solt Soy Sugar, white Saké Fea Beef Eegs Milk Cotton, ginned Yarn, cotton Silk, raw Hemp Cloth, white cotton Shirting, white Kalki (silk tissues)	dodododododododododododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 . 36 58. 25 86. 38 1, 218. 37 67. 06 . 65 10. 94 7. 07	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 .45 84. 81 121. 56 1, 437. 59 81. 33 .90 15. 77 8. 62	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56 83. 21 176. 02 2, 041. 71 110. 23 1. 35 24. 70 11. 07	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 .77 92. 14 183. 79 2, 611. 90 207. 94 1. 49 21. 68 13. 08	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 16 3 59. 96 59. 55 108. 08 1, 355. 20 10. 07 99 (4)
Beans, soja Beans, red Beans, red Salt Soy Sugar, white Saké Pea Beef Eggs Millk Cotton, ginned Yarn, cotton Silik, raw Hemp Cloth, white cotton Shirting, white Kaiki (silk tissues)	dododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 . 36 58. 25 86. 38 1, 218. 37 67. 06 10. 94 7. 07 9. 01	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 .45 .84. 81 121. 56 1, 437. 59 81. 33 .90 15. 77 8. 62 12. 49	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56 83. 21 176. 02 2, 041. 71 110. 23 1. 35 24. 70 11. 07 17. 33	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 .77 92. 14 183. 79 2, 611. 90 207. 94 1. 49 21. 68 13. 08 24. 08	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 16 3 59. 96 59. 55 108. 08 1, 355. 20 10. 07 99 (4) (4) (5) 63. 16
Beans, soja Beans, red Beans, red Salt Soy Sugar, white Saké Fea Beef Eggs Jotton, ginned Yarn, cotton Silk, raw Hemp Jloth, white cotton Shirting, white Kaiki (silk tissues)	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 .36 58. 25 86. 38 1, 218. 37 67. 06 .65 10. 94 7. 07 9. 01 1. 31	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 45 84. 81 121. 56 1, 437. 59 81. 33 90 15. 77 8. 62 12. 49 1. 63	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56 83. 21 176. 02 2, 041. 71 110. 23 1. 35 24. 70 11. 07	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 .77 92. 14 183. 79 2, 611. 90 207. 94 1. 49 21. 68 13. 08 24. 08 .94	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 8 57. 16 8 59. 55 108. 08 1, 355. 20 10. 07 (4) (4) 6 3. 16 6 119. 52
Beans, soja Beans, red Beans, red Salt Soy Sugar, white Saké  Pea Beef Segs Milk Cotton, ginned Yarn, cotton Silk, raw Hemp Cloth, white cotton Shirting, white Kaiki (silk tissues) Dedar square timber Pig fron Petroleum Oal	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 . 36 58. 25 86. 38 1, 218. 37 67. 06 . 65 10. 94 7. 07 9. 01 1. 31 5. 67	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 . 45 84. 81 121. 56 1, 437. 59 81. 33 . 90 15. 77 8. 62 12. 49 1. 63 8. 80	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56 83. 21 176. 02 2, 041. 71 110. 23 1. 35 24. 70 11. 07 17. 33 . 80 11. 40	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 .77 92. 14 183. 79 2, 611. 90 207. 94 1. 49 21. 68 13. 08 24. 08 24. 08 94 10. 02	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 96 68 59. 55 108. 08 1, 355. 20 10. 07 . 99 (4) 6 3. 16 6 119. 52 6, 45
Beans, soja Beans, red Beans, red Salt Soy Sugar, white Saké Pea Beef Eggs Milk Cotton, ginned Yarn, cotton Silk, raw Hemp Cloth, white cotton Shirting, white Kaiki (silk tissues) Cedar square timber Pig iron Petroleum Coal Firewood	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 . 36 58. 25 86. 38 1, 218. 37 67. 06 . 65 10. 94 7. 07 9. 01 1. 31 5. 67 16. 48	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 .45 84. 81 121. 56 1, 437. 59 81. 33 .90 15. 77 8. 62 12. 49 1. 63 8. 80 24. 12	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56 83. 21 176. 02 2, 041. 71 110. 23 1. 35 24. 70 11. 07 17. 33 . 80 11. 40 26. 44	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 77 92. 14 183. 79 2, 611. 90 207. 94 1. 49 21. 68 13. 08 24. 08 .94 10. 02 28. 21	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 16 3 59. 96 59. 55 108. 08 1, 355. 20 10. 07 99 (4) (4) (4) (5) (4) (6) (19. 52 (9. 45 28. 69
Beans, soja Beans, red Beans, red Salt Soy Sugar, white Saké Tea. Beef Eggs. Milk Cotton, ginned Yarn, cotton Silk, raw Hemp Cloth, white cotton Shirting, white Kaiki (silk tissues) Cedar square timber Petroleum Ooal Firewood Charcoal	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 . 36 58. 25 86. 38 1, 218. 37 67. 06 . 65 10. 94 7. 07 9. 01 1. 31 5. 67	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 . 45 84. 81 121. 56 1, 437. 59 81. 33 . 90 15. 77 8. 62 12. 49 1. 63 8. 80	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56 83. 21 176. 02 2, 041. 71 110. 23 1. 35 24. 70 11. 07 17. 33 . 80 11. 40	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 .77 92. 14 183. 79 2, 611. 90 207. 94 1. 49 21. 68 13. 08 24. 08 24. 08 94 10. 02	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 96 68 59. 55 108. 08 1, 355. 20 10. 07 . 99 (4) 6 3. 16 6 119. 52 6, 45
Beans, soja Beans, red Salt Soy Sugar, white Saké Tea Beef Eggs Milk Cotton, ginned Yarn, cotton Silk, raw Hemp Cloth, white cotton Shirting, white Kaiki (silk tissues) Cedar square timber Pigi iron Petroleum Coal Firewood Charcoal Seed oil	dododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 . 36 58. 25 86. 38 1, 218. 37 67. 06 . 65 10. 94 7. 07 9. 01 1. 31 5. 67 16. 48 . 38 1. 80 72. 02	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 .45 84. 81 121. 56 1, 437. 59 81. 33 .90 15. 77 8. 62 12. 49 1. 63 8. 80 24. 12 .59 273 93. 22	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56 83. 21 176. 02 2, 041. 71 110. 23 1. 35 24. 70 11. 07 17. 33 . 80 11. 40 26. 44 . 70 3. 09 97. 77	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 .77 92. 14 183. 79 2, 611. 90 207. 94 1. 49 21. 68 13. 08 24. 08 .94 10. 02 28. 21 .99 3. 84 98. 87	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 16 3 59. 96 59. 55 108. 08 1, 355. 20 10. 07 (4) 5 3. 16 6 119. 52 6, 45 28. 69 1. 04 3. 48 67. 59
Beans, soja Beans, red Beans, red Salt Soy Sugar, white Saké Pea Beef Egs Beef Eggs Milk Cotton, ginned Yarn, cotton Shirting, white Kaiki (silk tissues) Dedar square timber Pig iron Petroleum Coal Firewood Charcoal Beed oil Paper (Hanshi)	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 . 36 58. 25 86. 38 1, 218. 37 67. 06 . 65 10. 94 7. 07 9. 01 1. 31 1. 31 1. 80 72. 02 . 38	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 .45 84. 81 121. 56 1, 437. 59 81. 33 .90 15. 77 8. 62 12. 49 1. 63 8. 80 24. 12 .59 2. 73 93. 22 .60	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56 83. 21 176. 02 2, 041. 71 110. 23 1. 35 24. 70 11. 07 17. 33 . 80 11. 40 26. 44 . 70 3. 09 97. 77	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 77 92. 14 183. 79 2, 611. 90 207. 94 1. 49 21. 68 13. 08 24. 08 94 10. 02 28. 21 99 3. 84 98. 87 1. 30	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 16 3 59. 96 59. 55 108. 08 1, 355. 20 10. 07 99 (4) (4) (4) (5) 28. 69 1. 04 3. 48 67. 59 77. 71
Sugar, white Saké Tea Beef Eggs Milk Cotton, ginned Yarn, cotton Silk, raw Hemp Cloth, white cotton Shirting, white Kaiki (silk tissues) Cedar square timber Pigiron Petroleum	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo .	11. 97 13. 52 13. 61 16. 35 5. 21 27. 27 24. 10 54. 00 54. 91 37. 34 3. 07 . 36 58. 25 86. 38 1, 218. 37 67. 06 . 65 10. 94 7. 07 9. 01 1. 31 5. 67 16. 48 . 38 1. 80 72. 02	21. 40 22. 38 18. 35 21. 37 6. 22 33. 72 26. 93 65. 36 69. 68 53. 10 4. 14 .45 84. 81 121. 56 1, 437. 59 81. 33 .90 15. 77 8. 62 12. 49 1. 63 8. 80 24. 12 .59 273 93. 22	27. 17 23. 16 22. 07 31. 93 7. 09 44. 10 37. 75 86. 27 94. 27 70. 45 5. 97 . 56 83. 21 176. 02 2, 041. 71 110. 23 1. 35 24. 70 11. 07 17. 33 . 80 11. 40 26. 44 . 70 3. 09 97. 77	33. 23 26. 90 27. 74 38. 36 8. 08 54. 78 50. 58 113. 82 126. 67 87. 40 6. 03 .77 92. 14 183. 79 2, 611. 90 207. 94 1. 49 21. 68 13. 08 24. 08 .94 10. 02 28. 21 .99 3. 84 98. 87	19. 07 18. 00 21. 21 28. 76 1 4. 43 2 5. 10 42. 11 93. 96 131. 74 3 57. 16 3 59. 96 59. 55 108. 08 1, 355. 20 10. 07 (4) 5 3. 16 6 119. 52 9. 45 28. 69 1. 04 3. 48 67. 59

<sup>&</sup>lt;sup>1</sup> Per 100 kin. <sup>2</sup> Per 9 shō. <sup>3</sup> Per 10 kwan. <sup>4</sup> Not reported. <sup>5</sup> Per 2 yds. long. <sup>6</sup> Per ton. <sup>7</sup> Per 1 shime.

INDEX NUMBERS OF PRICES OF COMMODITIES IN JAPAN, 1912 TO 1920. [1912=100.]

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COMMISSION IN TAXAVENA NO	THE	14 (15)	a ii k	(SEE	17.3	(A 1=2)	Male.	N OHO	19	120
Commodity.	1912	1913	1914	1915	1916	1917	1918	1919	First half.	Sec. ond half
Rice	100 100 100 100 100 100 100 100 100 100	104 95 96 104 109 96 101 97 105 95 104 109 96 101 103 103 99 103 94 97 101 102 102 102 109 109 109 109 109 109 109 109	76 65 66 96 103 110 99 101 98 96 97 107 100 90 78 86 103 96 103 96 114 104 101 92 104	61 56 61 101 82 83 94 97 102 103 97 98 79 75 98 88 81 19 99 21 104 141 100 101 101 101 101	64 60 59 99 95 85 96 96 97 102 110 101 105 101 134 99 104 113 238 148 123 101 109	95 98 96 120 125 112 109 109 111 113 136 119 112 170 180 151 123 152 173 145 428 145 229 143 167 160 139	157 177 171 198 168 145 128 133 129 136 148 195 142 248 254 178 153 210 249 169 201 566 226 337 220 251 209 218	225 195 219 205 202 218 143 175 178 201 260 233 178 243 368 251 205 317 321 218 282 273 291 369 259 283 217 262	247 222 264 238 255 166 238 242 236 270 320 233 244 266 384 240 396 353 244 323 290 396 352 253 424 301 255 344 301 255 364 377 377 377 377 377 377 377 377 377 37	188 144 155 158 188 188 188 188 188 188 188 188
Dried sardines Dil cake	100 100	100 105	88 99 96	79 92 94	88 103 109	113 139	169 179 200	221 233 238	266 356 292	16 19

<sup>1</sup> Not reported.

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## WAGES AND HOURS OF LABOR.

Changes in Union Scale of Wages and Hours of Labor, 1913 to 1922.1

THE Bureau of Labor Statistics during the past summer has collected information concerning the union scale of wages and hours of labor in the principal time-work trades in the leading industrial centers of the United States, and a full compilation of the material is now in progress.

An abridged compilation has been made for certain trades and cities, and the rates and hours of labor as of May 15, 1922, are brought into comparison in the following table with like figures for preceding

years back to 1913.

1920

ond half

The union-wage-scale figures here published represent the minimum wage of union members employed in the trades stated, but these figures do not always represent the maximum wage that was paid, as in some instances part or even all of the organized workers in the trades received more than the scale.

In cases where scales have been revised since May 15, 1922, and made retroactive to that date or earlier the changes have been included in the tabulation, in so far as information has been received.

Two or more quotations of rates and hours are shown for some occupations in some cities. Such quotations indicate that there were two or more agreements with different employers and possibly made also by different unions. The figures are the highest and lowest contractual terms in the city.

69

<sup>&</sup>lt;sup>1</sup> A brief summary of the changes from 1907 to 1921 is given in the Monthly Labor Review for December, 1921. The average money rate per hour for each trade, all cities combined, as of May, 1921, and May, 1920, is published in the May, 1922, MONTHLY LABOR REVIEW.

UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922.

Blacksmiths, manufacturing shops.

				Rai	stes per he	per hour (cents)	8).			e m	19.1	ini	TELO	Hou	Hours per week.	week.			
·	1913	1914	1915	1916	1917	8161	6161	1920	1821	1922	1913	1914	1915	1 9161	1 2161	11 8161	919	1920 18	1921 1922
Boston.						V		61		0.18	LIF	79	1		10	1	1		1 4
Buffalo.	40.0	50.0	20.0	55.0	55.0			100.0		87.5	2	24	75	8	20	4	4	48	48
Chicago	43.2	43.2	43.2	46.2	56.0	75.0	86	110.0		110.0	16	464	464	4 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 3	8 8	8 <del>4</del>	<del>8</del> <del>4</del>	<b>1</b> 1
New Orleans.	36.1	36.1	36.1	36.1	36.1	68,8	80.0	800	80.0	88.0	75	7	25	75	. 45	. 84	-84	84 84	<b>8 4</b>
New York.	44.4	44.4	4.4	53.1	8	72.5	80.0	80.0	72.0	72.0	1 53	1 53	33	8	8	48	84	48	8
Philadelphia	:		:		50.0			110.0	110.0	100.0	:	-	:	¥	4 4	4	#	#	4
Pittsburgh Portland, Oreg.	37.5	37.5	37.5 45.0	37.5	50.0	72.2	80.0	88.0	8.00	80.0	<b>&amp;</b> 2	<b>\$2</b>	<b>&amp; 2</b>	32	33	& &	84	84	84
St. Louis. Salt Lake City.	33.3	33.3	33.3	33.3	6.0				100.0	90.0	22.0	23	23	25.5	25.0	25.3	80	80	40
San Francisco.	50.0	50.0	50.0			72.5	88	0.08	900	38	3	8	3 3	9:	8	280	\$4:	\$4:	54:
									0.00	100		:	:	:	:	40	#	#	44

Boiler makers, manufacturing and jobbing shops.

				ar.	01	II			97				XX THE	di					
Baltimore Birmingham Buffalo. Charleston, S. C.	60.04 96.00 96.00 96.00	86.0 9.0 9.0 9.0 9.0 0.0	8,8,8,0 6,0 6,0 6,0 6,0 6,0	30.6 42.5 40.0	47.59.54 02.08.0	52.05 5.05 5.05 5.05 5.05 5.05	\$3883 \$0000	88884 00000	85884 00000	857.55 00000	28222	28222	28222	282 2	2222	24844 48841 48841	48882	<b>4834</b> 2	<b>4884</b> 2
Cincinnati Cleveland Indianapolis Kansas City, Mo Los Angeles.	40.0 35.0 38.0	35.0 35.0 40.0	35.0 35.0 40.0	:	% <b>€</b> €	40.0 50.0 45.0		100.0 85.0 75.0 100.0	25.0 100.0 100.0 1.0	00000000000000000000000000000000000000	2222	<u> </u>	2282	<u>22</u> 22		:			
Louisville	32.0 41.0 38.9	32.0 41.0 38.9	32.0 41.0 38.9	32.0 41.0 38.9 46.9	35.0 45.0 48.8 49.8	45.0 55.0 62.5 70.0	65.0 70.0 80.0	76.0 75.0 85.0 80.0	76.0 90.0 85.0 72.0	76.0 90.0 80.0 75.0	22 22	25 25	54 54	554 48	554	50 50 54 54 48 48		84 444	2 4 4 4 5 8 4 4 4 8

844:

88.0 88.0

88.0 88.0

Omaha Priladelphia Postlond Orea 44.4 44.4 44.4 53.0 72.5 80.0

448

48.84

48 48

54

54

54

54

75.0

75.0

80.0 80.0 80.0 80.0

62, 5

41.7 41.7 41.7 46.9 49.4

New York

Omaha. Philadelphia Portland, Oreg. St. Louis.	33.3	33.3 44.4 40.0	33.3 44.4 40.0	33.3 44.4 40.0	50.0 53.0 40.0	70.0	80.0 70.0	90.00	88.0 90.0 90.0	86.000	54	49 54 5 493	54 54 54 54	54	48	488	444	444	44 44 48 48	8444
Salt Lake City San Francisco. Seattle. Washington.	43. 0 50. 0 50. 0	50.0 50.0	50.0	44.0 53.1 50.0	88.86 83.78 7.81	62.5 72.5 75.0 68.8	80.0 75.0 75.6	87.5 90.0 88.0 80.6	98.95.0 9.00.0 9.00.0	865.0 78.1 72.0 81.0	233	233	233	2333	3333	****	1111	\$222 -	\$4 <b>11</b>	<b>**</b>
							Bricklayers.	ayers.					112.75	1213		= 52				
Atlanta. Baltimore Birmingham Boston. Buffalo.	45.0 70.0 65.0 65.0	\$25.0 70.0 85.0 0.0 0.0 0.0	45.0 70.0 65.0 65.0	50.00 70.00 65.00 65.00	85555 00000	88.7.5 75.0 75.0	20.00 87.5 89.0 88.0	112.5 125.0 100.0 100.0	100.0 100.0 100.0 100.0	100.00 100.00 100.00	83118	83223	83448	83448	84111	84444	<b>1</b> 3444	13111 °	39333	<b>3</b> 9333
Charleston, S. C. Chicago. Cincinnat. Cleveland. Dallas.	25.00 85.00 87.50	87.0 87.0 87.0 87.0 87.0	870.00 870.00 870.00	87.000 2.000 3.000	87775 0.0577 0.000 0.000 0.000	20.00 100.00 100.00	75.0 87.5 100.0 100.0	125.0 125.0 125.0 125.0	125.0 125.0 125.0 150.0 150.0	85.0 110.0 125.0 137.5	22582	34414	34844	84844	81811	\$4844	31311	31311	34444	<b>*</b> 1*21
Denver. Detroit. Fall River. Indianapolis. Jacksonville.	75.0 65.0 55.0 75.0	65.0 66.0 75.0 75.0	75. 0 65. 0 60. 0 75. 0	87. 5 70. 0 75. 0 62. 5	87.5 75.0 75.0 75.0	100.0 80.0 85.0 62.5	100.0 90.0 85.0 75.0	125.0 125.0 115.0 125.0 87.5	125.0 100.0 115.0 115.0	125.0 100.0 95.0 115.0 100.0	3 2 3 3 4 4	1331 3	1181 <b>3</b>	22223	2 2 2 3 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4	**** *	2222 2	1111 1	11111	3333 3
Kansas City, Mo Little Rock Los Angeles Louisville Manchester	55.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	75.0 75.0 65.0 60.0	75.0 75.0 75.0 65.0 60.0	65.0 65.0 60.0 60.0	87.50 82.50 65.00 65.00	25.55.55 5.000 5.000	100.0 100.0 87.5 85.0	125.0 125.0 115.0 115.0	125.0 125.0 125.0 125.0	112.5 125.0 125.0 125.0	2 2 2 2 2 3 3 3 3 3	******	11111	32324	22222	<b>33333</b>	22222	<b>4444</b> 4	22222	33333
Memphis. Milwaukee. Minneapolis. Newark, N. J.	75.0 67.5 65.0 60.0	75.0 67.5 70.0 65.0	75. 0 67. 5 70. 0 65. 0	75. 0 67. 5 70. 0 60. 0	725.5 75.0 65.0	72.55 75.0 75.0 0.0 0.0	87.5 87.5 82.5 5.5 5.5	125.0 125.0 125.0 100.0	112.5 100.0 112.5 100.0	112.5 100.0 100.0 125.0	14814	11311	44844	44444	******	****	<b>4444</b>	44444	* 3 3 3 3 3	33333
<ul> <li>44 hours per week, June to August, inclusive.</li> <li>Work 53 hours, paid for 54.</li> <li>Prevailing rate: no effective union scale.</li> <li>54 hours per week, October to April, inclusive.</li> <li>54 hours per week, September to April, inclusive.</li> </ul>	for 54. for 54. fective union stober to Apprember to	st, inclus n scale. ril, inclus April, inc	ive. sive. clusive.	6 443 hours 17 48 hours 18 48 hours 19 48 hours 19 48 hours 19	per per per	week, veek, veek,	October to I November 1 September 1	r to Mar Decemb 16 to Mg to April	to March, inclusive. December, inclusive. 16 to March 15, inclus to April, inclusive.	to March, inclusive. December, inclusive. 16 to March 15, inclusive. to April, inclusive.		10 44 hours In 48	oer oer	week, N week, N week, I week,	October to November December to October to	October to April, inclusive. November to April, inclusive. December to February, inclusive. October to April, inclusive.	April, inc to April, i to Februal April, inc	inclusive. Il, inclusiv uary, incl inclusive.	e. isive.	

UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922-Continued.

Bricklayers-Concluded.

SER STREET	0.00			Ra	tates per hour (cents)	na (cen	ts).	TO AND	Total in	1111111				Ho	Hours per week.	week				
City.	1913	1914	1915	1916	1917	8161	1919	1920	1921	1922	1913	1914	1915	1916	1 2161	8161	6161	1920	1921	1922
New Orleans New York Omaha Philadelphia Pittsburgh	2005 2005 2005 2005 2005 2005	25525 20000	25525 20000	29 tt 7.89 t 20 0.00 t	28.45.45.4 20.00.47	75.00 75.00 75.00 75.00	90.03 5.00 0.03 5.00	125.0 125.0 125.0 125.0 125.0	120.0 120.0 130.0 150.0	00000 00000	33333	34343	22222	44444	44444	11111	33323	22222	34444	44444
Portland, Oreg. Providence. Richmond, Va. St. Louis. St. Paul.	48848 00000	5.8.8.5 00000	<b>48844</b>	25.00 25.00 25.00 25.00 25.00 25.00	5.55.55 0.00 0.00 0.00 0.00	25.05 25.00 25.00 25.00	80.0 80.0 100.0 87.5	125.0 125.0 125.0	125.0 125.0 125.0 125.0	112.5 100.0 100.0	<b>11</b> 313	<b>4444</b>	24328			11311	<b>44444</b>	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	44544	3 2 2 3 2 3 2 3 2 3 2 3 2 3 3 3 3 3 3 3
Salt Lake City San Francisco Scranton Seattle Washington	57.89 6.09 6.00 6.00 7.00 7.00 7.00 7.00 7.00 7.00	87.5 87.5 86.0 75.0 75.0	80.0 87.5 60.0 75.0	80.00 77.00 0.00 0.00	87.5 70.0 70.0 70.0	87.5 100.0 75.0 100.0 75.0	100.0 112.5 75.0 112.5 87.5	125.0 125.0 125.0 100.0	1125.0 125.0 1125.0 125.0	* 112.5 125.0 125.0 112.5 137.5	**************************************	22423 	11113	22223 22223	11113 -	11113	<b>44464</b>	<b>1</b> 1421	22222	33333
Henry of the Control	0.000	969	20.00	or B or o	Sandan Maria Maria	B	uilding	Building laborers	78.	10 O O	32,5			= = 1	1		721	· · ·	===	
Boston.	35.0	35.0	35.0	35.0							48	- 84	48	- 88	48	48	4	4	4	4
Chicago Cincinnati. Cleveland Detroit.	40.0	25.0	25.0 30.0 30.0	31.55 30.03 30.03	6.0.0 0.0.0	35.0 55.0	57.5 40.0 57.5 65.0	100.0 75.5 75.0	100.0 20.0 60.0 60.0	50.55 50.05 50.05	# !!!	43	<b>488</b> 2	4884	484	484	1811	1844	<b>4844</b>	<b>4844</b>
Fall River Kansas City, Mo. Los Angeles Louisville Manchester	27.5 34.4 27.9	30.0	35.0 34.4 22.2	34.4	37.5 22.2 22.2	37.5 43.8 30.0	57.5 50.0 35.0	75.0 62.5 50.0	25.0 25.0 25.0 25.0 25.0 25.0	620.0 620.0 620.0 60.0 60.0 60.0	343	343	342	842	342	\$48	\$40	444	<b>4444</b> 4	34444
Milwankoe		0			0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	65.0	65.0	55.0		1	1	0 0	0 0	0 0	9 1	4	44	44

New York	22. 5	22. 5	25.0	25.0	30.0	40.5	40.5	75.0	38.5	81.3	48	48	44	4	44	44	48	48	44	44
Omaha				30.0	30.0	45.0	50.0	0.09	.09	20.0			:	44	54	54	48	48	84	48
Pittsburgh	25.0	25.0	25.0	30.0	30.0	45.0	45.0	70.0	100.0	0.08	7	22	75	48	48	48	44	4	4	4
Portland, Oreg.	37.5	37.5	37.5	37.5	37.5	50.0	62.5	75.0			48	85	85	85	85	85	<b>4</b> 5	#1	# 4	#4
Providence	3,0	25.0	25.0	25.0	30.0	33.3	40.0	37.5	30.0	54.0	4	3 4	3 4	3 \$	3 4	3 4	3 #	1 7	1 4	# #
St. Paul						40.0	45.0	61.3	61.				:		:	:		493	403	403
Salt Lake City.								68.8	56.	343.8					:	:	48	44	84	84
San Francisco	27.8	31.3	31.3	31.3	37.5	3,8	62.5	75.0	81.3	62.5	25.2	48	48	89	848	48	80	48	488	7 9
Scranton	35	32.0	34.0	37.5	43.8	26.3			75.0	62.5		54	4	4	4	4	9	4	4	4
Washington	25.0	25.0	25.0	25.0		40.0			50.0	62.5		48	48	48	#	#	#	#	4	4

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Carpenters.

Atlanta	40.0	40.0	40.0	40.0	50.0	50.0	60.0	80.0	70.0	70.0	20	20	_	20	20	20	44	44	#	44
Baltimore	43.8	43.8	43.8	43.8	50.0	62.5	80.0	90.0	90.0	80.0	48	17 44	_	7.44	44	4	4	44	4	#
Birmingham	52.5	45.0	45.0	45.0	45.0	55.0	65.0	75.0	75.0	75.0	48	48	_	_		48	4	44	#	#
Boston	50.0	55.0	55.0	57.0	60.0	65.0	75.0	100.0	100.0	100.0	<b>4</b> \$	<b>4</b> \$	48	1 48	\$ <del>1</del>	34	9#	34	34	34
Dunaio	0.00	000	000	3		2.5	5	-					-							
Charleston, S. C	33.3	33.3	33.3	33.3	33.3	37.5	70.0	80.0	80.0	65.0	\$ 2.53	2 53	2 53	2 53	2 53	8	8	48	48	8
Chicago	65.0	65.0	65.0	70.0		70.0	80.0	125.0	125.0	110.0	44	44	44	4	44	44	44	44	44	44
Choinnati	50.0	50.0	55.0	60.0		65.0	70.0	100.0	100.0	95.0	444	444	143	444	444	444	444	444	444	444
Claveland	50.0	55.0	55.0	60.0		80.0	85.0	125.0	125.0	104.0	48	44	4	44	44	4	44	44	44	44
Dallas	55.0	55.0	0.09	0.09	62.5	62.5	87.5	100.0	100.0	100.0	44	44	1	44	44	44	44	11	4	44
Donvor	80.0	60.0	60.0	0.09	70.0	75.0	87.5	112.5		100.0	44	44	44	4	44	4	44	44	4	4
Detroit	50.0	50.0		50.0	60.0	60.0	80.0	100.0	85.0	85.0	48	48		44	44	44	44	4	4	4
Fall River	42.0	44.0	44.0	48.0	50.0	62.5	75.0	100.0		85.0	48	48	4	44	44	44	4	4	#	#
Indianapolis	50.0	50.0	55.0	55.0	57.5	.60.0	75.0	100.0	92.5	92. 5	444	444	++	44	144	444	444	444	444	444
Jacksonville	31.3	37.5	37.5	37.5	37.5	45.0	65.0	80.0	80.0	80.0	48	48	48	48	48	48	48	44	4	44
1 44 hours per week, June to August, inclusive. 2 Work 53 hours, paid for 54. 3 Prevailing rate: no effective union scale.	August,	inclusi n scale.	ve.	13.44	8 hours 1	per week per week	July 1 to	to Septer	ril, inclus nber 7, ir	sive. nclusive. inclusiv	ė	16 444 h 17 48 ho 18 40 ho	ours pel	r week,	k, Octo	November to June to Sept	April tember	inclus ch, incl r, inclu	sive. lusive. isive.	

1 44 hours per week, June to August, inclusive.
2 Work 33 hours, paid for 54.
Prevailing rate; no effective union scale.
9 48 hours per week, September to April, inclusive.

UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922-Continued.

Carpenters-Concluded.

The Section of the Control of the Co	2.28	37.1	227.5	Rai	tes per h	es per hour (cents).	.(8)			10000	7			Hor	Hours per week	week.				
Partitions Dogs	1913	1914	1915	1916	1917	8161	1919	1920	1821	1922	1913	1014	1915	1916	1 7161	1918	91 6161	1920	1921	2201
Kansas City, Mo.	55.0	60.0	65.0	65.0	65.0			100.0	100.0	100.0	45	1 4	1 4	4:	4:	4:	1	1	1	1 4
Los Angeles. Louisville. Manchester	0.00 0.00	54.5 000	6.000	5.55	9000	9000	6.000	20.05	9999	2000	3344	\$\$ <b>1</b> \$	3323	1119	<b>*</b> \$\$\$	4344	***	*44	***	333:
Memphis. Milwaukee	50.0	50.0	50.0	50.0	55.0			100.0	75.0	75.0	44	44	3 4 4	3 4 4	1 43	1 42	1 43	<b>* * *</b>	: 4:	: 4:
Minneapolis. Newark, N. J. New Haven.	50.0	50.0 50.0	20.0 20.0 20.0	50.0 50.0	55.0 55.0 55.0	60.0 70.0 55.0	80.0 65.0	100.0	100.00	80.0 112.5 90.0	321	\$22	342	342	:311	1111	111	1111	1333	1444
New Orleans New York Omaha	<b>4</b> 888	62.5 50.0	62.5 50.0	40.0 62.5 50.0	40.0 68.8 57.5	68.0	75.0	75.0 112.5 112.5	100.0	100.0 112.5 90.0	311	\$11	\$44	<b>3</b> 44	344	311	344	*44	#44	444
Pittsburgh	55.0	56.0	62.5	55. 0 62. 5	71.0						<b>4</b> 4	24	<b>‡</b> ‡	11	44	<b>4</b> 4	44	24	44	**
Portland, Oreg. Providence. Richmond, Va. St. Louis. St. Paul.	88.50.0 87.00 80.00 80.00 80.00	50.0 877.0 50.0 50.0	50.0 87.5 50.0 50.0	80.0 87.5 82.5 50.0	50.08 65.0 65.0 85.0	75.0 60.0 70.0 60.0	75.0 75.0 75.0 75.0 75.0	190.00 190.00 190.00	100.0 125.0 100.0	80.0 110.55 0.05 0.05	11313	<b>1</b> 1344	11818	<b>11848</b>	<b>*</b> ****	11811	<b>11</b> %11	13533	14444	13511
Salt Lake City. San Francisco. Scranton. Seattle. Washington.	25.25.55 26.35.55 26.35.55	62.24 56.25 56.55 56.05	62. 5 62. 5 56. 3	62.5 50.0 56.0 56.0	68.8 65.0 65.0	75.0 60.0 82.5 7	100.0 87.5 87.8	112.5 106.3 100.0	100.0 1112.5 87.5 87.5	87.5 87.5 87.5	1181	1131	33333	3333	****	32223	<b>4449</b> ;	2422	2222	1111:

Cement finishers.

Baltimore. Barningham Boston. Buffalo. Chicago.	50.0 62.5 65.0	50.0 62.5 65.0	50.0 55.0 55.0	62.00 62.00 65.00 65.00	62.0 62.0 67.0 67.0	65.0 70.25.0 70.00 70.00 70.00	80.000 00000	125.0 125.0 125.0	1200.00 1200.00 1200.00	100.0 100.0 100.0 110.0	84 4	\$4 <b>4</b>	<b>**</b> 4*4	33434	88 <b>48</b> 2 48 <b>48</b> 2	<b>48484</b>	4 <b>%</b> 444	<b>4811</b> 2	48444
Cincinnati	50.0	3.3.5	50.0	50.0					90.0	87.5	50 84	50 84 8					44, 4	1 1	# 4
Dallas. Denver. Detroit.	28.88 0.80 0.80	68.5 50.0 50.0	62.5	50.0	62. 5 75. 0 55. 0	62. 5 75. 0 60. 0	87.5 87.5 80.0	100.0 100.0 125.0	125.0 100.0 100.0	125. 0 100. 0 100. 0	842	812 :	84 25	8 : 15	18 14 18 14 14 14	***	<b>*</b>	311	311
Fall River Indianapolis Kansas City, Mo. Little Rock Los Angeles.	50.0 62.5 55.6	55.0 65.0 55.6	57. 5 65.0 55.0	60.0 57.5 66.0 55.6	65. 0 60. 0 75. 0	75.0 62.5 75.0 75.0	85.0 70.0 87.5	115.0 90.0 107.5 100.0	115.0 100.0 107.5 112.5	95.0 100.0 112.5 112.5	842	842	542	1642	1842 1844	1344	48444	18111	28222
	45.0	46.0	45.0	45.0		90.0					99	9	99	:			4:	4:	4:
Manchester Milwaukee Minneapolis Newark, N. J.	45.0	45.0 50.0 62.5	45.0 50.0 65.0	25.05 0.00 0.00	25.0 75.0 0	25.0 25.0 0 0 0 0 0	75.0 87.5	85.0 100.0 125.0	100.0 100.0 125.0	100.0	\$ 4	334	884	1881	1881	4444	****	***	***
New Haven				60.0	66.0	70.0	82.5	100.0	100.0	100.0	0 0		:	#	#	44	44	2:	4:
	62. 5	62.5 f 55.0	62.5	62.5	70.0	70.0	75.0	112.5	112.5	112.5	44	3 3	3 3	1 1	7 7	# 3	# 3	32 3	54 4
Philadelphia	45.0	_	50.0	50.0		65.0	72.5		100.0	80.0	493	18	1 4				1 4	: 3	1 4
Pittsburgh Oreg. Portland, Oreg. Providence.	62. 5	50.0	50.0 52.5 50.0	50.0 62.5 62.5	56.3 62.5 62.5	75.0 87.5 62.5	75.0 87.5 80.0	82.5 100.0 100.0	100.0	87.5	88	881	848	184	322	222	444	2223	2223
St. Louis.	0.09	60.0	0.00	65.0	62.5	75.0	82.5	125.0			4	4	4	4	4	4	4	#	4
St. Paul. Salt Lake City. San Francisco.	50.0	50.0 62.5 75.0	55.0 75.0 75.0	60.0 75.0	60.0 75.0	60.0 75.0 87.5	75.0 87.5 100.0	100.0	100.0	887.5 104.4	3 \$ 4 4 5	3343	2443 2443	20 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	84 44 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4846	4444	4444	<b>444</b>
Washington	0.70	-	0.00	62.5					100.0		OF.	01	01.				44	4	1

\* Prevailing rate; no effective union scale.

UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922-Continued.

Compositors: Book and job.

Sept. Lines Colt.	1000		000	Rat	tates per hour (cents).	ur (cent	8).				13	22		Но	Hours per week.	r week				-
Sept. Sept. Sept.	1913	1914	1915	9161	7161	1918	1919	1920	1921	1922	1913	1914	1915	9161	1 2161	8161	6161	1920	1351	1922
Atlants Baitimore Brimingham Boston Buffalo	37.5 4.0 4.0 7.1 8.0 6.0	25.55 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65 25.65	37.5 37.5 40.6 43.8	37.5 37.5 43.6 41.7	2.444.4 2.00000	######################################	24.24.25.05. 25.20.20.4	25.8 26.0 27.7 2.9 2.17	### ### ### ##########################	98.88.89 9.09.09 0.00.09	<b>***</b>	****	\$ \$ \$ \$ \$ \$	***	****	****	***	****	33223	133111
Charleston, S. C. Chicago Cincinnati Cleveland Dallas	8.3.3.8.8.8 8.0.0.8.1	52.1.7 52.1.7 52.1.7	83.3 50.0 41.7 52.1	33.3 50.0 51.7 52.1	5.5.0 5.5.0 5.5.0 1.8.8 1.8.8	57.5 50.9 50.0 50.0	37.5 75.0 62.5 8.5 8.5 8.5	37.5 95.8 77.0 88.5	106.0 106.0 106.5 100.0	93.8 93.8 93.8	****	*****	****	<b>33333</b>	***	****	***	***	22282	33333
Denver. Detroit Fall River Indianapolis Jacksonville.	23.88.85.75 23.88.85.75	14.00.00.00.00.00.00.00.00.00.00.00.00.00	4.4.8.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	44444 4444 4444	45.83.00 45.83.00 8.83.83	47.88.52.5 47.61.8	65.6 72.9 52.1 52.1	81.3 92.7 75.0 75.0	81.3 96.9 100.0 81.8	81.3 105.0 72.7 81.8	& & & & & & & & & & & & & & & & & & &	<b>***</b>	****	***	****	33333	***	***	33111	*****
Kansas City, Mo. Little Rock Los Angeles Louisville Manchester	37.5 37.5 37.5 37.5	41.7 37.5 39.6 35.4	43.8 50.0 39.6 35.4	35.00 35.00 35.00 4.00	8.85.08 8.09.08 8.00.08 8.00.09	0.000 0.000 0.000 0.000	4.88.8.4. 2.88.87.	45.55 96.58 7.80 7.80	26.38.57. 400.000	40888 40808	<b>3333</b> 3	****	<b>&amp;&amp;&amp;&amp;</b>	***	****	****	***	***	33131	<b>* * * * * * * * * *</b>
Memphis Milwaukee Minneapolis Newark, N. J	47.5 47.9 6.6	43444 08860	\$4.55.0 8.00 8.00 8.00 9.00	44444 600 800 800 800	47.1 50.0 60.0 60.0	\$7.584 10888	344554 440000	93.8 72.9 87.5 91.7 58.3	98.8 85.4 111.4 58.3	28.38.20 8.43.68.4	***	<b>&amp;&amp;&amp;</b> &&	***	****	<b>** ** ** * * *</b>	*********	****	***	<b>33343</b>	33323
New Orleans New York Omaha Philadelphia Pittsburgh	20.5.0 20.0.0 20.0.0 20.0.0 20.0.0	43.8 30.0 37.5 41.7	\$3.0 \$0.0 \$1.7 \$1.7	84444 81.84 81.84	\$4.55.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.55 \$4.	58.88 50.0 47.9	50.0 75.0 60.4 80.4 80.4	93.8 89.8 81.3	71.9 113.6 93.2 100.0	78.4 113.6 93.2 89.6 100.0	***	<b>38</b> 3 3 3	\$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<b>343</b>	<b>333</b> 33	<b>\$44</b> \$4	<b>333</b> 33
Portland, Oreg. Providence. Richmond, Va.	53.1 37.5	53.1 37.5 33.3	53.1 37.5 37.5	37. 5 37. 5	53.5 37.5 37.5	59. 4 45. 8 87. 5	75.0 50.0 48.6	85. 4 72. 9 56. 3	95.8 72.9 56.3	95.8 79.5 81.8	2 2 4 2 2 2	48 48 	2 4 4 4 8 8 8	2 4 4 8 8 8 8	24.88 8.88	488 488	8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	488	48 48	322

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Providence.... Richmond, Va

	St. Paul		45. 8. 8. 8.	45. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	45.8	# 0.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	0.10	900	0.7.00	95.5	x <del>4</del> <del>4</del> <del>2</del>	48	48	488	84.8	48	48	48	44	44
Salt Lake City. San Francisco. Scranton. Seattle. Washington.	50.0 53.0 53.1 53.1 6.0	5.5.5.0 5.5.5.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.	52.1 50.0 43.8 40.0	54.55.55.55.55.55.55.55.55.55.55.55.55.5	24.45.45.25.25.25.25.25.25.25.25.25.25.25.25.25	56. 50. 50. 50. 50. 50.	62.5 62.5 75.0 62.5	75.0 81.3 71.9 87.5	75.0 104.5 77.1 93.8	75.0 104.5 77.1 98.8	**************************************	\$\display \display \d	* * * * * * * *	88888	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	48 48 48 48 48 48	84 84 84 84 84 84 84	48 48 48 48 48 48 48	48444	84844
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Atlanta. Baltimore. Birmingham Boston. Buffalo.	50.0 52.5 50.0 50.0 50.0	\$5.0 \$3.0 \$0.0 \$0.0	8.5.5.00 8.00 8.00 8.00 8.00	555.58 50.00 50.00	43.8 61.9 56.5 53.1	50.0 61.9 57.5 68.0 59.4	65.6 67.5 65.0 65.0	63.8 93.3 67.5 95.0	91.0 93.3 67.5 87.5	86.5 95.5 107.0 87.5	## ## ## ## ## ## ## ## ## ## ## ## ##	**************************************	* # # # # # # # # # # # # # # # # # # #	**************************************	* 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	* 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	* 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	**************************************	855558	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
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Memphis. Milwaukee. Minneapolis. Newark, N. J. New Haven.	57.8 45.9 60.9 46.9	57.8 47.9 54.0 60.9 46.9	57.8 50.0 54.0 60.9 47.9	57.8 50.0 60.9 47.9	57.8 54.2 63.0 50.0	96.00 50.00 50.00 50.00	66.7 56.3 76.1 50.0	86.7 77.1 89.1 72.9	92.8 93.8 79.9 2.2	88.9 93.8 110.9 79.2	34434	33333	28888	33333	33333	13 13 13 13 13 13 13 13 13 13 13 13 13 1	8 4 4 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	# 45 8 8 8 8 8 8 8 8 9 8 9 8 9 8 9 8 9 8 9	25 85 85 85 85 85 85 85 85 85 85 85 85 85
New York Omaha Philadelphia Pittsburgh Portland, Oreg	66.7 50.0 55.0 68.3	66.7 50.0 41.7 60.0 68.3	86.7 53.1 41.7 60.0	66.7 53.1 41.7 60.0 68.3	66.7 53.1 41.7 61.0 68.3	71.1 53.1 50.0 65.0	96.7 68.8 77.0 100.0	87.5 87.5 81.3 87.5 106.7	122.2 87.5 79.2 111.8	122.2 87.5 79.2 111.8	13 4 4 4 4 13 8 8 8 13	# ####################################	# # # # # # # # # # # # # # # # # # # #	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	# 8 8 8 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 8 8 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	288833 4	23334	46.88 46.55 46.55	34 84 54 54 54 54
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11 44 hours per week for 3 months, between June 1 and Sept. 30.
12 Minimum; maximum, 8 hours per day.
13 Actual hours worked; minimum, 6; maximum, 8 hours per day.

24 Actual hours worked; minimum, 7; maximum, 8 hours per day.

25 Work 473 hours, paid for 48.

26 Maximum; minimum, 7 hours per day.

484

548

48

48

Portland, Oreg Richmond, Va. St. Louis.

UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922-Continued.

Compositors, daywork: Newspaper-Concluded.

City.	200	3.8		Rat	ates per hour (cents).	our (cent	.8).			381				Ħ	ours pe	Hours per week.	ü			
None Brade	1913	1914	1915	1916	1917	1918	1919	1930	1921	1922	1913	1914	1915	1916	1917	1918	6161	1920	1921	1928
Providences Richmond, Va. St. Louis. St. Paul. Salt Lake City.	7.88.84.99 000 L 10 10	25.55.25 25.55.29 25.55.29	85.55 85.75 62.55 7.50 5.50 5.50 5.50 5.50 5.50 5.50 5	000 000 000 000 000 000 000 000	05 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	24.53.25.25 -8.44.53	25.55.55 7.84.65.7 7.84.00	8 8 9 9 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	100.0 87.5 88.8 87.5	\$25.52.52 8.52.53.52 8.52.53.54	*****	<b>33333</b>	***	\$\$ \$ \$ \$ \$	*****************	\$ \$ \$ \$ \$ \$	****	*********	\$ \$ \$ \$ \$ \$ \$ \$	\$ 44 4 8 8 4 8 8 4 8 8 4 8 8 8 4 8 8 8 8
San Francisco. Scranton Seattle. Washington.	47.47.9 47.0 6.7.0 7.0	40.57	47.9 75.0 60.7	69.0 75.0 60.7	52.0 52.1 60.7	68.9 52.1 78.5 60.8	75.6 100.0 92.9	93.3 114.3 104.0	107.8 87.5 114.3 104.0	107.8 87.5 114.3 104.0	2822	2224	3433	3833	3.83.3	3822	3344	****	2222	<b>4444</b>
				84.5		Elect	Electrotypers:	s: Fini	Finishers.	2011		19:21								
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Cincinnati Cleveland Denver Detroit Indianapolis	3-1-3-1-2 3-1-3-1-2 3-1-3-1-3 3-1-3-1-3 3-1-3-1-3 3-1-3-1-3	44444 **********	\$5.55 \$0.00 \$0.00 \$0.00	\$55.55 \$0.00 \$0.00 \$0.00	55.5.5.5.5.5.5.5.0.5.0.0.0.0.0.0.0.0.0.	56.3 56.3 56.3	65.55.55 6.55.55 6.55.55 6.55.55	98.88.99 98.88.99 98.88.99	83.3 102.3 83.3 83.6	95.5 75.0 102.0 85.2	<b>₹</b> \$ \$ \$ \$	***	***	****	33331	<b>&amp; &amp; &amp; &amp; &amp; 4</b>	****	33331	33444	28444
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104.5 93.8 91.7	113.6 90.9 104.5 102.3	ders.	96.6 89.8 90.6 77.1 113.7	87.5 88.3 102.3 65.9	95.8 86.4 81.3 134.1	75.0 90.9 134.1 102.3 113.6	87.5 104.5 93.8 89.6 91.7	113.6 90.9 104.5 102.3
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New York. Omaha Philadelphia

week. per hours 3 minimum. Maximum;

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UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922-Continued.

Granite cutters, inside.

THE REAL PROPERTY AND PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF

City.	0.03		1000	Rat	es per ho	per hour (cents).	s).							Hou	Hours per week	veek.			
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Boston	 5.6.	45.6	45.6	20.0							<del>1</del> <del>1</del>	<b>4 4</b>	<b>‡</b> ‡	44	<b>4 4</b>				
Charleston, S. C.	4.4	£5.0 85.0	50.0 45.0	52.1 45.0	53.1 45.0	50.0	69.0	87.5	100.0	100.0	<b>4</b> 4	44	44	44	11	44	**	**	44
Chicago.		50.0	50.0	23.1							#	4:	#:	#:	4:	4:			
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Denver	57.0	27.0	57.0	57.0							4	11	<b>4 4</b>	<b>2 4</b>	<b>* * *</b>	11			
Detroit Fall River		43.0	45.0	50.0							44	444	444	4:	4:	4:			
Los Angeles.	62.5	62.5	62.5	889	27.5	20.0	182	100.0	112.5	112.5	3 25 5	9 99 9	34:	14:	: 4:	11:	11:	11:	*4:
Manchester		40.6	40.6	20.0							34	22	34	44	11	**			
Newark, N. J.		50.0	50.0	50.0							#:	4:	4:	#:	4:				
New Orleans.	45.0	35	45.0	988	000	20.0	120.0	80.0	100.0	100.0	19:	14:	14:	14:	14:	14:	14:	11:	##:
Philadelphia		20.0	56.3	56.3							11	17	11	<b>‡ ‡</b>	<b>‡</b> ‡				
Pittsburgh	50.	50.0	50.0	53.1							44	4	4	4	4				
Richmond, Va.	43.8	45.0	45.0	20.0	20.0	20.0	70.0	82.5	100.0	100.0	<b>4 4</b>	<b>4 4</b>	11	<b>4 4</b>	<b>4 4</b>	11	44	44 44	<b>4</b> 4
St. Louis.	50.	20.0	20.0	20.0							44	#	44	44	44				
Salt Lake City	62.	62.5	62.5	62.5							4:	4:	4:	4:	#:				
Seattle	62.5	62.5	62.5	62.5	62.5	75.0	87.5	100.0	112.5	112.5	11	11	<del>+</del> <del>+</del> <del>+</del>	<b>4 4</b>	11	##	11	44-44-46	#9
Washington	45	45.0	45.0	50.0	- 4						44	44	44	11	14		_	_	

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Baltimore. Boston. Chleago	35.0 40.0	31.3 40.0 40.0	34.4 35.0 40.0	35.0 42.5 42.5	3.3.3.4.4.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	50.0	55.0 57.5 65.0	100.0	25.0 100.0 25.0 25.0	75.0 70.0 72.5 7	8 344 A	8 322 2	8 344 4	* 3223	1111	<b>444</b> 8	444 <del>8</del>	4448	414 <b>3</b>
Cleveland	31.3	32.5		31.3		0	57.					\$ # \$ }	1	44.	7	#	#	#	7
Denver	37.5	37.5	37.5	37.5	46.9	53.1	8.69	{ 75.0 78.1	75.0	75.0	4	4	4	4	4	#	#	4	4
Detroit	35.0	35.0	1 35.0	35.0	43.8		65.0			75.0	48	10 48	491	494	4	13 44	4	4	44 :
rall kiver	40.0	40.0	40.0	40.0	42.5	50.0	55.0	{ 72.5 75.0	67.50	67.5	#	4	4	4	1	4	4	1 4	1 1
Kansas City, Mo	37.5	37.5	45.0	45.0						80.0	#	44	4	4	4	#	4	4	44
Little Rock					30.0	40.0	50.0	62.5	62.5	50.0	:	:	-	:	25	54	494	494	4
Louisville	38.0	38.0	38.0	38.0	45.0	45.0	50.0	55.0	80.0	80.0	48	48	4	4	4	20	20	44	4
Manchester Memphis. Newark, N. J	30.0	30.0	35.0	30.0	37.5	50.0 45.0	50.0	75.0	75.0 62.5 87.5	75.0 62.5 75.0	44	44	22	22	11	11	44	:33	<b>444</b>
New Orleans				40.0	40.0	50.0	55.0	75.0	65.0	65.0				4	4	. 4	4	:4	44
Philadelphia	35.0	35.0	35.0	5.0			70.0	100.0	85.0	85.0	44	44	44	4	#	#	44	44	44
Pittsburgh	25.0	25.0	25.0	30.0 45.0	30.0	55.0	60.0	90.0	100.0	80.0	44 49	49g	44	#	4	4	4	44	4
Portland, Oreg	50.0	50.0	50.0	50.0	50.0	62.5	75.0	93.8	0.06	0.06	48	48	8	48	48	48	4	4	44
Providence	30.0	30.0	30.0	30.0	35.0			65.0	55.0	45.0	20	20	20	20	20	20	20	4	4
St. Louis	42.5	50.0	47.5 50.0	47.5 50.0 37.5	47.5 50.0 40.6	46.9 55.0 40.6	65.0	80.0	85.0	85.0	4	4	4	4 8	2 2	1 1	3 3	<b>4 4</b>	4 4
Salt Lake City	37.5	37.5	37.5	37.5			62.5		75.0		4	4	#	4	4	44	4	#	4
San Francisco	30.0	30.0	30.0	35.0	35.0	62.5 35.0	50.0	88.88 88.80	70.0	71.3	4.8	48 13	44	14 th	13 44 13	± ±	<b>4 4</b>	77	##
Washington	28.2	28.7	28.1	28.1			62.5		75.0		16 45	16 45 16	45	16 45 10	16 45 10	16 45 16	45	44	44

12 48 hours per week, December to February, inclusive. 19 444 hours per week, October to April, inclusive. 29 44 hours per week.

Prevailing rate; no effective union scale.
 48 hours per week, September to April, inclusive.
 44 hours per week, October to April, inclusive.

nary, inclusive. 18 444 hours per week, October to April, inclusive. 28 44 hours per week, November to March, inclusive.

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Salt Lake City. Scranton. Seattle.

UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922-Continued.

Inside wiremen.

Clty.	100		2 30	Rat	tes per hour (cents).	ur (cent	8).					2 =	= =	Hor	Hours per week.	week.				
tale Labo (Styl)	1913	1914	1915	9161	11917	8161	6161	1920	1921	1922	1913	1914	1915	1916	1 2161	1918	61 6161	1920	1921	1922
Atlanta	44.5										1				2	1 0	;	1:	1;	1:
Birmingham	8.8	43.8	8.8	43.8	20.0	20.0	20.0	92.5	112.5	100.0	48	48	<del>*</del>	48	48.	48	14	4	11	14
Boston	55.5	55.0	60.0	62.5							4.4	4.4	<del>*</del> *	44	4:	4:	4:	4:	4:	4:
Buffalo	45.	46.9	20.0	56.3							8	48	148	148	48	: 4	1.2	1.1	12	1.4
Chicago	75.	75.0	75.0	75.0						110.0	4	4	4	44	4	77	7	44	7	44
Cleveland	25.52	900	58.1	56.3						95.0	444	44	4.	4	4:	44	143	443	443	1
Dallas	26.00	38	62.5	62.5	65.0	80.0	87.5	100.0	112.5	112.5	\$ 4	4.4	<del>1</del>	11	<b>4</b> 4	<b>4 4</b>	44	4 4	44	14
Denver	8	56.3	36. 8	0.09						100.0	4	44	44	4	1	1	1	44	1	1
Detroit.	46.9	50.0	53.1	59.4			83.8				48	_	19 48	48	4	4	4	*	4	4
Indianapolis	47.5	47.5	47.5	28.0	50.0	5.0	70.0	185.0	8.6	880	800	48	848	4:	4:	1:	44	44	4:	4:
	45.	45.0	45.0	45.0			85.0					6.5		44	44	44	4 4	<b>‡ ‡</b>	11	<b>‡ 4</b>
Kansas City, Mo	62.5	62.5	68.8	65.0			87.5				48	48	44	4	4	4	44	1	4	4
Little Rock.	50.	30.0	50.0	50.0							48	48			0 48 30	48 30	84	44	44	4
Louisville.	3.6	40.0	40.0	90.04							8 8	848	8 9	80 0	85.0	8 9	4:	4:	44	4:
Manchester	81.3	34.4	34.4	37.5	42.5	60.0	75.0	100.0	100.0	80.0	3	\$ 3	84	0 oc	34	64:	12:	11	14	44
		3	000	0.00							40	4	44	44	4	4	4	1	4	4
Milwaukee	5.0	0.0	0.08	50.0							44	4:	4:	4:	4:	4:	4:	7:	4	4
Newark, N. J.	56.3	62.5	62.5	62.5	62.55	68.8	75.0				84	11	\$ \$	11	44	44	11	4 4	11	44
New Orleans.	45.0	50.0	50.0	50.0		56.3	75.0	90.0	100.0	100.0	48	48	- 84	48	4 4 8	48	48	11	44	<b>4</b> 4
New York	56.3	0.09	0.00	60.0							4	4	44	4	44	4	44	4	44	44
Omana Philadelphia	50.0	50.0	50.0	57.02							4:	4:	4:	4:	4:	4:	4:	1	17:	: 4:
Pittsburgh.	57.5	57.5	56.35	62.5	62.5	68.8	25.0	100.0	125.0	112.5	8	183	14:	14:	14:	14:	11:	11:	1 1	11:
		2	0.00	0.00							44	44	Ŧ	4	4	44	7-7-	44	44	44
Providence.	\$ 55 \$ 50 \$ 00	50.0 43.8	50°0	50.0	55.0	60.09	70.0	75.0	115.0	90.0	44	4 8	4 4 X	4 4	44 × × × × × × × × × × × × × × × × × ×	44	44	44	44	144
St. Louis.	46.9	50.0	75.0	26.3			68.8		125.0	125. 0 80. 0	77	44	77	11	44	44			177	44

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or. Faul..... 146.9

Machine operators: Book and job.

Baltimore	46.9	48.0	48.0	40.0							_	-	-	-	-	-	-	-	-	1
Birmingham	52.5	52.5	54.5	54.5	57.3	20.00	57.4	201.02	88.00	8.00	200	200	× .	80	48	48	48			00
Boston	45.8	47.0	47 G	47.0							_	48	48	2	48	48		_	_	+
Buffalo	20.03	50.02	200	EO 0								48	48	48	48	48			_	4
Charleston & C	0.00	0.00	300	00.00							_	48	48	48	48	48		_	_	*
Cada teston, D. C.		0.10	31.0	31.5							:	48	48	48	48	48		488	44	17
Chicago	60.02	600	0 02	0 04																
	0.00	0.00	000	20.0								48	48	84	48	_	_	_		4
	49.0	1.70	52.1	52.1								48	48	48	40	_	_		_	
	S.S.	53	53.8	53.8								46	0	707	000	,				*
	a 12.5	31 12.5	31 12.5	31 12.5								40	90	01	00	_			_	*
Denver	54.2	54.2	54.2	54.2	54.2	59.4	65.6	81.3	81.3	95.5	48	8	0 30	6 %	40	6 4 40	84	48	44 44	* *
Detect			-	-											1		_	_		
Delloit.	25.0	25.0	55.0	55.0							48	48	84	48	48			_	_	0
rall Kiver.				*******											48		-			0 -
Indianapolis	20.0	0.09	20.0	50.0							48	46	10		10	_	_	_	_	# .
Jacksonville	43.8	52.1	52.1	52.1	53.1	53.1	28 3	75.0	100.3	109 3	700	00	00	00	07	90	50	400	44 44	+
Kansas City, Mo.	55.2	55.2	57.3	57.3							00	40	40	50	55	_	_		_	+
											40	40	48	48	48	_			_	00
Little Rock.	50.0	50.0	50.0	20 0							04				_		_	_	_	
	58.3	60.4	60.4	80.4							000	40	400	48			_	_		wit
Louisville	49.0	50.0	20.09	100	20.05	59.1	24.0	64.0	70.0	104.0	80	400	80	848	48	48	48	48 44	44	**
Manchester	35.4	35.4	35.4	35.4							00	00	000	200	_		_			-
Memphis	62.5	62.5	56.3	56.3							007	50	40	200				_	_	-
The Proposition of the Propositi											or.	90	0	40	_			_	_	-
Milwaukee	47.9	50.0	52.1	52.1	54.2						8	8.4	48	_						
Minneapolis	20.0	20.0	20.0	50.0							48	84	48	_						
Newark, N. J.	47.9	47.9	47.9	20.0	50.0	56.3	72.9				000	200	48						_	
New Haven	45.8	45.8	45.8	45.8			45.8	58.3	58.3	86.4	000	000	48	200	48	48	460	10	44	w -
New Orleans															_			_		
None Vani		;	-									*					*	*	_	
New I ofk.	2.5	7.5	54.2	54.5			75.0				48	48	48	_	_					
Omana	20.0	50.0	53. 1	53. 1			68.8				48	48	48		_					
rimadeipina	45.0	40.8	45.8	45.8			64.6				48	48	48					_		
Portland Orea	81.9	00.00	0000	52.1	52. 1	56.3	68.8	87.5	106.8	106.8	8	48	48	48	48	48	48 48	8 44	44	
יייייייייייייייייייייייייייייייייייייי	0.00	0000	03.0	03.0			100.001				-07	- 84	48	_		_	_	_	_	-

144 hours per week, June to August, inclusive.
 3 Prevailing rate; no effective union scale.
 1944 hours per week, June to September, inclusive.

29 44 hours per week, August to December, inclusive.
 30 44 hours per week, July to September, inclusive.
 41 Per 1,000 ems nonpareil.

UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922-Continued.

Machine operators: Book and job-Concluded.

City.	The Date		A 60 Mg	R	Rates per hour (cents).	our (cen	its).							Ho	Hours per week.	r week				
	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1913	1914	1915	1916	1917	8161	1919	1920	1921	1922
Providence. Richmond, Va	47.9			47.		52.1		72.		86.4	84	1 89	\$ 3	8	000	88	8	48	8	#
St. Louis St. Paul Salt Lake City	0.00 0.00 0.00 0.00 0.00	50.0 50.0 86.0	26.05 26.00 26.00	20.00	56.25.25 24.25 24.25 24.25	59.6 52.1 56.3	63.8 64.5 64.6	75.03.07	101.0 87.5 75.0	101.0 95.5 75.0	0 4 4 4	\$ <del>\$</del> <del>\$</del> <del>\$</del>	2 2 3 3 3 3 3 3	\$ 44 44 4 \$ 50 50 50	24 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	\$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$	8448	<b>44</b> 44
San Francisco.	64. 4 45. 8	64. 4 45. 8	64. 4	65.0	65.0	50.0	68.8 54.2			104.5	45.	13.8	15.8	8 8	8 8 8			\$ 40	\$ 43	8 49
Washington.	50.0	50.0	20.0					121. 4 87. 5	95. 5	121. 4 95. 5	· · · · ·	3	33	248	323	348	2 2 2 3 3 3 3	# # # # # # # # # # # # # # # # # # #	334	334
					Machine	e operators,		day work:	1	Newspaper.			1	4 8 1						
Atlanta. Baltimore.	53.6	at 8.5	59.5								\$ 5	80	30	- 4 c	₩.	æ 6	œ 9	8	26 48	26 48
Boston. Buffalo	63.0	88.89 0 0 0	63.0	63.0	56.5 68.0	57.5 68.0	67.5	95.0	67.5	107.0	1242	23 42	2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	255	2425	333	322	325	22 42 83 42	# 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Charleston, S. C.	31 9.0	31.9.0	31.9.0								-	89 00	8	8	48	8	8		100	48
Chicago.	34 50.0	№ 50.0	34 50.0		9	6 00	5 4	36 72.0		115.0	48	88	38 38	45	45 45	45	22 39 23 45	# # 42	48	48
Cincinnati Clevoland Dallas	52.1 53.8 # 12.5	54.2 53.8 12.5	53.8 12.5	3.53. 12,12,	56.3 62.5 31.12.0	56.3 62.5 31 12.0	87.5 68.8 31.12.0	107.3 87.5	93.8	107.3	8 45 8 8 8 8	848					3 3 3	3 4 3 5	4 44	an 1960 1961 A
Denver. Detroit. Fall Rivor	63.3 55.0 45.8	63.3 45.0 85.0	63.3 55.0 8.55.0	8.63.4 8.0 ×						93.3	43	34	3 13 23	9 49	5 5 5 5	3 2 3			2 42 S	20 45 20 45 20 48
Indianapolis. Jacksonville.	50.0 at 9.0	50.0	50.0 52.1	52.1						8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	583	3 4 4	28 48 48 48	8 4 4 8 8 8	£ & &	\$ \$ \$	\$ 4 <b>\$</b>	\$ \$ \$	\$ \$ \$	00 00 00 00 00 00
Kansas City, Mo Little Rock Lous Angeles. Louisville. Manchester	80.00 80.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	60.00 4.00 4.00 4.00 4.00	60.00 4.00 4.04 0.40	66.00 4.00 4.04 4.04 6.04	66.0 66.0 40.7 2.2 2.2	65.0 65.0 4.0 7.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65	75.6	90.6 90.5 86.7	88.89	90.6 101.1 82.5	3443	<b>3</b> 344	8248	<b>3</b> 244	8448	<b>\$2</b> 5\$	<b>*44</b>	<b>833</b> 3	<b>&amp;</b> 444×	<b>33</b> 43
Memphis Milwaukee. Minneapolis.	21.9, 5 45, 8 21.10, 0	21 9, 5 47. 9	N 9, 5 50, 0	31 9, 5 50, 0		8 9,5 56,3					# 54.4 5 5.4.8		-	5 5 5 5 2 5 5 5		\$ 44.4 \$ 68.4	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4. 16. 4	\$ 558 5 588	22 45 24 45 24 45

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Newark, N. J. New Haven. New York. 2 9 # 84 08

Newark, N. J.	60.0	60.9	60.0	60.0	63.0	69.6	78.1	89.1	110.9	110.9	46	46	46	46		Ĺ			П	8
New Haven	46.9	46.9	47.8	47.9	20.0	50.0	20.0	72.9	79, 2		25	48	48	48						20
New York.	66.7	7.99	66.7	66.7	66.7	71.1	96.7	122, 2	122, 2	122.2	45	45	45	- 29	45					100
Omaha	50.0	50.0	53, 1	53.1	53.1	53.1	68,8	87.5	87.5	87.5	48	48	48	48	48					48
Philadelphia	45.8	45.8	45,8	45.8	45.8	52.1	66.7	81.3	79.2	79.2	48	48	48	48	48					48
Pittsburgh	55.0	0.09	60.0	60.0	61.0	65.0	77.0	87.5	111:8	111.8	48	22 45 2	2 45 2	2 45 2	45 23	98		_		464
Portland, Oreg	68.3	68.3	68.3	68.3	68.3	72.7	100.0	106.7	106.7	106.7	45	45	45	45	45	45	45	45		45
Providence	47.9	47.9	50.0	50.0	50.0	52.1	66.7	87.5	100.0	95.8	48	48	48	48	48	.48	48			48
Richmond, Va										87.5										48
St. Louis.	81 11.0	81 11.0	31 11.0	31 11.0		31 11.5	81 11.5	31 15.0	31 15.0	31 15.0	40 39	40 39 4	0 39 4	0 39 4	_	42 40	42	-		46
St. Paul.	54.5	54.5	54.5	54.5		63.0	63:0	94.0		89.8	48	48	48	48	48 41	48 41	48 41	4	=	48
Salt Lake City	81 10°0	31 10.0	31 10,0	21 10,0	at 10.0	31 10.0	31 11.0	43 11.0		31 13, 5	48	* 48 *	4 48 4	48 4	4 48 44	48 44	48 44	463 44	164 44	463
San Francisco	64.4	64.4		69.0	69.0	68.8	75.6	93.8			45	45	42	42	42				-	45
Scranton	47.9	47.9	47.9	47.9	52, 1	52. 1	60.4	81.3	87.5	87.5	48	48	48	48	8	48	48	48		48
Seattle	75.0	75.0		75.0	78.6	80.1	100.0	114.3			42	42	42	42	42	42	42			42
Washington	60.7	60.7		60.7	60.7	8.69	92.9	104.0			42	42	42	42	42	42	42	-		42
												-	-	-	-	-	-	-	-	-

Milwankee...

Machinists: Manufacturing shops.

	35.0 {	35.0	40.0	45.0	47.5	0.00	0.89	78.5	75.0	75.0	99		09		54	54	48		90
	43.8	98.9	28.0 42.0	35.0	50.0	55.0	65.0	90.0	75.0	90.0	8 75	248	25.25	54	50 } 48	88	84	87	8
	39.0 {	43.5	41.7	46.9	55.0	65.0	80.0	100.0	90.0	83.0	54		248		48 18	87	14		7
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25.0	35.0	32.5	35.0	42.0	42.0	50.0	75.0	75.0	60.0	55		523		48	48	48		8
	33.3	33.3	35.0	45.0	45.0	0.09	0.09	75.0	65.0	65.0	54		54		20	20	50		00

19 44 hours per week, June to September, inclusive.
21 44 hours per week, for 3 months, between June 1 and Sept. 30.
22 Minimum; maximum, 8 hours per day.
23 Actual hours worked; minimum 6, maximum 8 hours per day.
25 Work 473 hours, paid for 48.

as Maximum; minimum, 7 hours per day.

as Per 1,000 ems nonparell.

as 45 hours per week, 1002, inclusive.

as For the years 1918 to 1922, inclusive, the rates are for machinist operators.

as For 3,500 ems per hour; for 4,500 ems per hour, 55 cents and 1 cent bonus for each additional 100 ems per hour.

as For 3,500 ems per hour; for 4,500 ems per hour 70 cents and 1 cent bonus for each additional 100 ems per hour.

as For 3,500 ems per hour; for 4,500 ems per hour 70 cents and 1 cent bonus for each additional 100 ems per hour.

as For 3,500 ems per hour; for 4,500 ems per hour 81.06 and 1 cent bonus for each additional 100 ems per hour.

Maximum: minimum 53 hours per day.
39 Per 1,000 ems nonparelland 45 cents per day bonus.

Minimum; maximum, 7% hours per day.
 Maximum: minimum, 7% hours per day.
 Per 1,000 ems nonpareil and \$1 per day bonus.
 Per 1,000 ems nonpareil and \$1.25 per day bonus.
 Maximum; minimum 6% hours per day.

[565]

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UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922-Continued.

Machinists: Manufacturing shops-Concluded.

Chy.	100	de la	1000	Ra	tes per h	tes per hour (cents).	s).			The Parents				Но	Hours per week.	week.			
A LOS CONTRACTOR OF THE PARTY O	1918	1914	1915	1916	1917	1918	1919	1920	1921	1922	1913	1914	1915	1916	1 2161	1918	1 6161	1920 19	1921 1922
Dallas.	10.0	40.0	200	42.0				80.0		80.0	54	25.	œ:	8	:	1 :9	88	84	200
Indianapolis		40.0	40.0	40.0	47.5					75.0	55 57	25	54	40	25	& &	<del>2</del> <del>2</del> <del>2</del>	<b>\$</b> <del>\$</del>	85
Kansas Čity, Mo.	37.0	<b>6.0</b>	40.0	50.0 42.5	50.0 45.0	60.0	68.0	100.0	100.0 85.0	85.0	22	22.22	22	84.5	3 2 2	38%	\$ <del>\$</del> <del>\$</del>	144	348
Los Angeles.								20.0	70.0	70.0	:		:	:		:	48	48	88
Memphis. Milwaukee		42.0	42.0	42.0	50.0	55.0	929	100.0	100.0	90.6	54	26	54	54	48	20	8 8 6	\$ <b>\$ \$</b>	\$ <del>\$ \$</del>
New Haven	{ 33.3	88.88 85.03		42.5	50.0	60.0		80.0	72.0	65.0	28	200		84	- 84	84	48 2	\$ 8	\$ \$\$
New Orleans.	38.9	38.9		43.8	50.0	68.8		80.0	80.0	75.0	54	70	25	8	48	- 84	48	- 84	#
New York	40.6	40.6	40.6	6.91	56.3	82.0 82.0	90.0	90.0	95.0	90.0	51	85	919	48	48	84	8	48	<b>84</b>
Omaha	40.0	40.0	40.0	40.0	45.0	0.09		85.0	85.0	80.0	25	20	75	24	75	8	84	84	84
Philadelphia	33.3	33, 3	35.0	45.0	48.0	{ 65.0 { 72.5	80.0	80.0	75.0	75.0	54	75	75	7	848	8 45	\$ 55 	84	35
Portland, Oreg.	45.0	45,0	45.0	45.0	50.0	75.0	80.0	88.0	88.0	80.0	48	48	48	84	48	8	4	4	4
Richmond, Va	35. 5	35.5	35.5	35, 5	51.5	57.0	75.0	75.0	68.0	68.0	22	55	55	55	\$ 5°	200	8	8	48
St. Louis.	33.0	37.0	37.0	37.0	44.0	0.00	70.0	85.0	90.0	70.0	70	70	70	25	32	8	48	8	48
St. Paul.	33. 5	38.0	35.0	40.0	40.0	40.0	72.5	90.0	0.06	90.0	55.54	38	54	54	2	25	88	#	#
Salt Lake City. San Francisco. Seattle	 64.0 8.0 8.0 8.0	48.8	0.83.4	50.0	50.03 80.03	72.5	5.88	80.08	2.0.0	3 65. 0 20. 0	\$ \$ \$	\$ \$ \$	45 84 84 84	25 4 4 28 8	***	***	444	\$ <del>1</del> 2	* # # # # # # # # # # # # # # # # # # #
Washington	40.6	40.6	-	50.0	56.0	57.5	88.8 8.8 0.8 0.8		80.0	80.0	8	48	8	48	48	2 9	48	18	48 1

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Atlanta. Baltimore Boston Charleston & C	36.1	35.0 38.9	35.0 38.1 38.9	36.1	41.7 46.9 50.0	50.0 68.8 58.3	70.0 68.8 58.3	90.0	80.0 87.5 87.5	75.0 75.0	822	54	00 24 24 24	54	54 54 54	282	54 54 54		50 50 48 48 48 48
Chicago	44.4	41.4	44.4	50.0	56.3	8.89	80.0	105.0			54	54	25	48	48	48	48	:	48
Cincinnati	36.	38.0	38.0	4.4			58.3				20:	200	40	40.	40	54			
Denver	44.4	44.4	44.4	44.4							24.00	54	504	20.00	48	_			
Detroit.	38.9	38.9	38.9	44.4	50.0	61.1	80.0	100.0	90.0	75.0	200	45	25.2	42.2	25	72.	8 3		48
all Mivel		0.00	0.00	1.00							5	5 1	5 1	5 ;	<b>*</b> :	5 1	0 1	4.	
ndianapolis.		36.1	36.1	38.0							20.2	10 H	20.0	24	5. E	10 H	24	4	
Little Rock	38.9	38.9	38.9	38.9	41.7	44.4	68.0	80.0	90.0	90.0	54	2.2	24.0	44	5.5	2.2	54 2	24.2	540
Louisville	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0									:	*			*	:		0.5	
Manchester					* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	72.5	72.5			:						84	200	
(emphis	38.9	40.0	40.0	40.0	40.0	56.0	68.0	82.0			24	24	54	54	24	54	54	54	
Newark, N. J.		38.0	38.9	41.7	47.2	92.6			88	280.0	42	54	54	40	25	72	8	48	48
NewOrleans	36.1	36.1	36.1	38.9	50.0	62.5	0.08	80.0			54	40	54	54	48	48	48	48	
New York		41.7	41.7	41.7	47.2	52.8	75.0	88.0			54	24	24	75	54	54	48	48	
Omaha		40.0	40.0	40.0	45.0					80.0	54	54	54	54	154	54	48	48	
Philadelphia	36.1	38.9	38.9	44.4	20.0	68.8	68.8	100.0	0.08	78.0	42	25.2	54	54	54	849	80	400	48
Flusburgh		-	44.4	4.4	00.00					0.0	5	5	5	10	07	40	OF .	64	•
Portland, Oreg	41.7	_	41.7	41.7	26.3				0.88	0.08	25	25	54	25	48	48	44	7	4
St. Louis	38.9	38.9	38.9	41.7	50.0	61.1		0.06	85.0	75.0	54	75	25	K	Z	54	48	48	
St. Paul		38.9	38.9	42.8							55	25	3	54	25	20	8	48	•
Salt Lake City		41.7	41.7	4.4							54	54	54	75	48	1 84	48 1	48	1
San Francisco	50.0	20.0	20.0	20.0	53.1	72.5	80.0	88.0	100.0	80.0	48	48	8	48	48	48	4	44	4:
Scranton	25.0	27.5	27.5	27.5							9:	3:	9:	3:	75	10	200	88:	4.
Seattle		44.4	44.4	44.4							\$	20.	50	7	24	8	44	4	4.
Washington		30.0	30.0	4.45								75	50	204	48	400	200	200	4.

1 44 Nours per week, June to August, inclusive.
3 Prevailing rate; no effective union scale.
46 49 hours per week, June to August, inclusive.

46 54 hours per week, November to April, inclusive. 47 492 hours per week, May 19 to Sept. 15, inclusive.

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50.0 45.5

50.0 45.5

45.5

Portland, Oreg... Providence... Richmond, Va

UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922-Continued.

Painters.

City	The Party of	ROPES for some principle on		Ra	ites per hour (cents).	our (cent	s).			1000			-	Ho	Hours per week.	week.				
	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1913	1914	1915	9161	1 2161	1918	6161	1920	1921	1922
Atlanta	33.3		33.3	33.3	36.1	50.0	0.09	0.00		75.0	2 53	2 53	3 53	2 53	55.0	188	4	4	44	1 2
Birmingham.	45.0	37.5	37.5	37.5	50.08	62.5	68.8	87.5	87.5	380.0	<b>2</b> 4 4 ∞	\$ <del>4</del> <del>8</del>	8 8	<del>4</del> 4 ∞ ∞	84 4	11	44	44	44	<b>4</b> 4
Boston	50.0	-	55.0	60.5	62.5	75.0	82.5	100.0		100.0	4	4	4	40	9	9	9	40	40	9
Buffalo	43.8	46.9	46.9	46.9	20.0	56.3	62.5	87.5	87.5	87.5	48	48	1 48	1 48		8 48	8 48	-	8 48	48 48
Charleston, S. C.	25.0	25.0	25.0	25.0	25.0		50.0				48	48	84	48	8	48	48	48	44	4
Chicago. Cincinnatí.	50.0	20.0	20.0	25.0	55.0	60.0	87.5	125.0	125.0	87.5	44	<b>44</b>	<b>44</b>	<b>4</b> 4	44	##	<b>44</b>	22	44	44
Cleveland		20.0	20.0	20.0			87.5				<b>4 4</b>	<b>4 4</b>	<del>1</del> <del>1</del> <del>1</del>	44	<b>‡</b> ‡	<b>4</b> 4	<b>4 4</b>	<b>4 4</b>	<b>4 4</b>	* *
Denver. Detroit		50.0	50.0	55.0			85.0	100.0	112.5	100.0	48	448	48	44	44	11	11	44	44	44
Fall Kiver Indianapolis Jacksonville	47.5 37.5	37.5 30.0 37.5	37.5 50.0 37.5	\$0.0 37.5	41.0 55.0 45.0	25.0 25.0 20.0	70.0	100.0	100.0	28.25	<b>44</b> %	<b>44</b> %	<b>44</b> 8	<b>44</b> 8	<b>118</b>	<b>1</b> 43	111	111	<b>444</b>	<b>1</b> 34
Kansas City, Mo. Little Rock.	50.0	90.0	80.0	90.0	55.0	0.08	82.5	100.0	100.0	100.0	489	489	489	<b>44</b> 9	448	44:	44:	<b>44</b> :	44:	44:
Louisville Manchester	:	3.55	31.3	37.5							6.8	84 8	\$ <del>\$ 8</del>	\$ <del>\$</del> <del>\$</del>	6 8 8	131	111	111	111	144
Memphis Milwaukee Minneapolis Newark, N. J	0.00.04 0.00.00	522.5 50.0.0 6.0.0	52.5 50.0 44.0 90.0	52.25 55.0 55.0 6.9 6.9	80.0 55.0 50.0 5.0	62.5 52.5 52.5 53.5 1.5	5.5.5.5.5.0 0.0.0.5.5.0 0.0.0.0.0.0	100.0 100.0 100.0 100.0	100.0 100.0 100.0	87.5 86.0 100.0	33333	<b>4444</b>	44444	11111	44444	<b>***</b>	<b>4444</b>	2222	22223	44444
New Orleans New York Omaha			40.0 50.0	40.0 62.5 55.0	40.0 62.5 62.5	50.0 62.5 62.5	65.0 75.0	75.0 112.5 100.0	90.0	80.0 1112.5 90.0	844	<b>\$</b> 24	8 4 4	844	844	844	444	444	44	44
Philadelphia	55.0	56.3	58.1	42.5			87.5		100.0	100.0	44	44	44	44	44	4 4	44	44	44	2.4 4.4

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56.3

55.0

Pittsburgh

				[569]			
Portland, Oreg Providence Richmond, Va St. Louis.	Salt Lake City	The second second	Atlanta. Baltimore. Birmingham. Boston. Buffalo.	Charleston, S. C. Chicago Cincinnati Cleveland Dallas	Denver Detroit Fall River Indianapolis Jacksonville.	Kansas City, Mo. Little Rock. Los Angeles. Louisville. Manchester.	Memphis. Milwaukee. Minneapolis. Newark. N. J. New Haven.
50.0 45.5 37.5 50.0	80.00 80.00 80.00		62.5 65.0 60.0	40.0 75.0 62.8 75.0	75.0 68.8 625.0 56.5 62.5	75. 0 62. 5 75. 0 65. 0	75. 0 65. 0 70. 0 65. 0
50.0 30.6 60.0	56.0 59.4 50.0 50.0 50.0		45.0 62.5 65.0 66.0	40.0 75.0 75.0 62.5 87.5	75. 0 68. 8 60. 0 65. 0	75.0 75.0 75.0 50.0	75. 0 65. 0 70. 0 65. 0
50.0 45.5 30.6 50.0	56.55 50.03 50.03 50.03		45.0 62.5 65.0 60.0	40.0 75.0 68.8 87.5	68.8 60.0 62.8 62.8	75.0 62.5 75.0 50.0	75.0 76.0 65.0
50.0 45.5 30.6 62.5	62.5 62.5 56.0 56.0		45.0 62.5 70.0 60.0	40.0 75.0 75.0 88.8 87.5	68.8 68.8 56.8 56.8	75.0 62.5 65.0 60.0	75. 0 65. 0 70. 0 60. 0
50.0 37.5 62.5	75.0 62.5 50.0 56.0		65.0 6.0 6.0 6.0 6.0 6.0	40.0 75.0 75.0 87.5	87.5 75.0 72.0 56.3	75.0 75.0 62.5 65.0	75.0 75.0 75.0 65.0
50.0 50.0 75.0	75.0 50.0 75.0 75.0		50.0 70.0 70.0 70.0	50.6 81.3 75.0 85.0	87.5 75.0 75.0 75.0 68.8	87. 5 75. 0 75. 0 75. 0	87.5 70.0 75.0 75.0
90.0 662.5 70.0	87.5 87.5 86.0 75.0	Plasterers.	85.0 85.0 85.0	75.0 87.5 87.5 90.0 112.5	85.5 87.5 75.0 75.0	100.0 87.5 87.5 75.0	87.5 87.5 90.0 87.5
100.0 80.0 65.0 100.0	100.0 106.3 100.0 90.0	erers.	100.0 112.5 75.0 100.0	100.0 125.0 125.0 112.5	125.0 115.0 100.0 87.5	120.0 112.5 112.5 100.0	100.0 87.5 112.5 125.0 100.0
90.0 90.0 125.0 100.0	100.0 106.3 87.5 93.8 100.0		100.0 125.0 100.0 125.0	85.0 125.0 125.0 150.0	125.0 125.0 115.0 112.5 87.5	120.0 112.5 125.0 112.5	112.5 112.5 125.0 125.0
90.0 80.0 100.0 80.0	90.0 100.0 87.5 93.8 100.0	86	100.0 125.0 100.0 112.5 100.0	85.0 110.0 112.5 125.0 137.5	125.0 112.5 95.0 112.5 87.5	112.5 112.5 125.0 125.0	112.5 112.5 100.0 125.0
84844	<b>44844</b>		84448	84444	<b>448 48</b>	<b>4</b> 8448	34444
<b>1</b> 4224 <b>4</b>	44844		84444	24444	44444 44848	28444	<b>33333</b>
24 44 44 44 44 44 44 44	22222		84444	84444	44444	48444 44444	*****
4444 4444 4444	******		£4404 £4404	84444 84444	111118 111118	*****	4444
44444 44444	11131		24434	3111	11111	8 11111	<b>4 4 4 4 4 4 4 4 4 4</b>
444 444 444 444	11131		24484	<b>**</b> 222	444 <u>4</u> 4	8 4444 4444	<b>4444</b>
4484 <b>4</b>	<b>44484</b>		* ************************************	<b>3</b> 4444	3333	33333	33333
44444 448444	44464		<b>44488</b>	<b>*1111</b>	33333	14914	<b>4444</b>
24844	14464		44468	\$ <b>1111</b>	<b>4</b> 4444	44944	11111

| 65.0 | 70.0 | 70.0 | 70.0 | 70.0 | 75.0 | 8, 65.0 | 65.0 | 70.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0

112.5 112.5 112.5 112.5 125.0 100.0 125.0 100.0 100.0 100.0 48 hours per w # 44 hours per w # 44 hours per w

UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922-Continued.

Plasterers-Concluded.

City				Rat	8	per hour (cents)	(8).		,					Hol	urs per	Hours per week.		1		
	1913	1914	1915	1916	1917	8161	1919	1920	1921	1922	1913	1914	1915	9161	1917	1918	6161	1920	1921	1922
New Orleans.	62.5	62.5	50.0	50.0			75.0				3:	\$	3	39:	14:	19:	123	3:	3:	45
Omaha Philadelphia	75.0	62.5	62.5	65.0	35.0	75.00	87.5	112.5	122	12.25	122	122	149	113	<b>‡‡</b> \$	149	##9	<b>44</b> 5	<b>4</b> 49	<b>44</b> 5
rus parkur	62.5	88.8	21.9	75.0			85.0				4	#	4	4	4	4	7	4	4	4
Portland, Oreg. Providence	625.0	75.0	75.0 62.5	75.0	75.0 68.8	87.5					44	11	<b>4</b> 4	22	44	43	4:	43	43	43
Louis. Paul	62.5	75.0	75.0	75.0	75.0	87.5	100.0	75.0 125.0 112.5	87.5 137.5 100.0	87.5 137.5 100.0	<b>\$</b> 23	44	44	44	44	44	223	333	<b>3</b> 3 3	444
Salt Lake City.	75.0	75.0	75.0	75.0							44	44	44	#9	#9	49	45	# 4 5	15	: 4:
Scranton. Seattle. Washington	75.0	25.0 0.05.0 0.00	00.0 2.0 2.0 2.0 2.0	65.0 0.05.0 0.00	87.0	100.0	112.5	125.0	125.0	125.0	34	144	144	113	343	149	343	149	449	149
	2.50	0 10	0.50	0.50							#	#	#	44	4	*	4	44	4	44

Plasterers' laborers.

								-			1									1
Boston	41.5	40.0			45.0	50.0	0.09	80.0	80.0	80.0	4	4	7	40	40	40	40	40	40	9
Chicago	48.0	50.0 45.0	50.0		50.0	50.0	65.0	106.3	106.3	78.8	44	44	44	44	44	44	4:	4:	4:	4:
Cleveland	85.0 8.8	35.0 43.8		35.0 43.8	45.0 50.0	55.0	57.5 68.8	87.5	87.5	60.0 81.3	844	\$4	122	144	144	44	344	344	344	444
Detroit.	37.5	43.0	43.8	43.8	50.0	50.0	75.0	100.0	75.0	75.0	\$	4	4	#:	4:	4:	4:	4:	4:	4:
Kansas Čity, Mo. Los Angeles. Louisiville.	37.5 61.4 38.0	26.3 38.0	45.0 36.3	\$ 56.0 0 8.0 0 8.0	50.0	625.0	68.0 75.0 80.0 80.0	100.0	112.0	112.0	444	144	333	122	177:	144:	###	***	144:	##4:
Memphis. Milwaukee Minneapolis.	32.5	37.5 35.0 40.6	37.5	37.	42.9	50.00 55.00	50.0 55.0 60.0	75.0 0.05.8 0.00.0	62.5 85.0 85.0	62.5 75.0	# 4.84 4.84	1 431	48 44	1 84	2 3 7	=======================================	# ###			4 777

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43.8 46.9 56.3 62.5

35.0 22.5 40.6

40.6 | 40.6

28.3 25.0

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22.5

22. 5

New Orleans...

Newark, N. J.

New Orleans	22.6	22.5	100	22.5	28.3	9 6	45.00	87.5	87.5	50.0	. 00	- 84	48	48	45 4	45 45	45	45	44	
New York Philadelphia Pittsburgh Portland, Oreg	8. 45. 6 50. 0	40.6 43.8 40.0 50.00	\$ 50.0 50.0 50.0	43,8 44.0 45.0	34.55.05.0 0.00.00	50.55 50.50 50.50	662 662 75,00 55,00 65,00	87.5 110.0 90.0 93.8 75.0	10.03 10.00 10.00 10.00 10.00	25.00.0 25.00.0 25.00.0	1144	<b>4448</b>	1 <b>113</b>	4848 :		12,181	333 <b>33</b>		<b>33344</b>	
St. Louis. Salt Lake City San Francisco. Scranton.	8 56.3 56.3 62.5	3	56.3 56.3 62.5	862.0 852.0 852.0 852.0	56.3 62.5 35.0	68.5 35.8 35.0	75.0 75.0 87.5 50.0	87.5 100.0 106.3 58.5	100.0 87.5 112.5 70.0	8 87.5 95.1 60.0	444	<b>4</b> 44	<b>3</b> 33 :	<b>3</b> 444	4444			1131	44 <u>8</u> 4	
Seattle. Washington.	31.3	31.3	31.3	31.3		50.0	50.0	75.0	62.5	75.0	<b>‡</b> ‡	<b>4 4</b>	<b>4</b> 4	44				34	34	
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Plumbers.

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	# 3	: 4	4	48	4	4:	<b>‡</b> ‡	4	4	# 3	4	44	44	44	4
	#3	1	4	48	#	4:	1 1	17	1	4 3	14	44	4	44	4
	#3	: 4	1 48	48	44	4:	# #	4	4	#3	48	44	44	6 4	44
	84	14	1 48	48	44	4:	: 1	4	4	77	48	44	11 44	44	14
	48	. 4	1 48	48	4	4	: 1	4	48	84	48	44	11 44	44	48
2 53	84	1	1 48	48	44	444	# #	4	48	84	48	44	11 44	44	48
:	48	1	48		44	44	‡ ‡	44	48	48	48	48	19 48	44	48
	98.8						125.0			25.0			100.0		
	100.0				-	-	137.5			100.0			112.5		
	150.05						125.0			100.00			125.0		
	119.5					25.0	100.0			67.5			27.0		
	68.8						87.5			25.3			75.0		
	25.3						81.3			50.0	62.5		88.8		
	25.0	65.0	56.3				75.0			96	62.5		62.5		
	25.0	65.0	56.3	8.8	75.0	69.8	75.0	62. 5	00.0	\$ 5 0 0	62.5	8.8	62.5	60.0	31.3
44.4	50.0	65.0	56.3	43.8	75.0	60.8	75.0	62, 5			62.5	68.8	35	60.09	31.3
:	0.08 0.08	60.0	56.3		75.0	60.8	98.80	62. 5			62.5	62.5	26.3	0.00	31.3
Atlanta	Saltimore	Soston	3uffalo	Charleston, S. C.	Chicago	Javolend	)allas	)enver	Oetroit.	rall Kiver	acksonville	Kansas City. Mo	Little Rock.	ouisville	fanchester

44 hours per week, June to August, inclusive.
 4 Work 53 hours, paid for 54.
 8 Prevailing rate; no effective union scale.
 11 48 hours per week, November to April, inclusive.

19 44 hours per week, June to September, inclusive.
 10 For tenders.
 11 For helpers.

UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922-Continued.

Plumbers-Concluded.

1914  1914  1914  1914  1916  1916  1916  1916  1916  1916  1916  1916  1916  1916  1916  1916  1917  1917  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918  1918	1912 25 25 25 25 25 25 25 25 25 25 25 25 25	1916 7.55 7.55 7.55 7.55 8.0 8.0 8.0 100 100 100 100 100 100 100 100 100 1	1920 125.0 100.0 112.5 87.5 112.5 112.5 106.3 112.5 110.3 110.0 100.0	1921 100.0 100.0 100.0 100.0 100.0 112.5 125.0	1922 112.5 90.0 87.5 87.5 112.5 100.0	1913	1914 19	1915 19	7161 9161	7 1918	101	-	-	1001
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Detroit	56.3 56.3	56.3	56.3	56.3	62.5	75.0	87.5	100.00	100.00	100.001	48	_	_	_	44	44	44	44	44	
	40.0	20.	50.0	50.0							48	484	44 44	44	44	44	44	44	44	
Fall River				37 5											++	++	++	44	44	
Indianapolis	47.5	50	55.0	55.0							* * * * * * * * * * * * * * * * * * * *		_		44	44	44	44	44	
Kansas City, Mo	57.5	0.09	62.5	62.5	62.5						200				44	44	44	44	#	
	50.0	52.	52.5	52.5							10				45		44	44	44	
Los Angeles.	56.3	56.	56.3	56.3	-	68.5	68.5	100.0	112.5	112.5	4	44	44 44	44	84.4	44	4 7	4:	4:	
Lonisville	40.0	2 60	0	0 41							_					:	*	=	F	
	24.4	0.77	900	95.0					80.0		48				44	44	44	44	44	
Mamphia	100	20.00	20.4	4.4					0.06		48	_			44	11	44	4.4	44	
Milwanbaa	10.0	20.0	30.0	50.0					100.0		48	_		_	48	11	44	11	**	
Minneapolis	25.0	20.02	47.0	20.0	52.5	0.00	0.00	67.5	100.0	85.0	48 82	48 62 4	48 62 48	1 48	1 48	1 48	1 7	17	1.4	
	000	300	00.00	00.00					100.0		48	_	_		44	44	1	1	17	
Newark, N. J.	60.0	60.0	0.00	60.0							-							:		
New Haven.	47.7	47.7	47.7	20.02							4:			_	4	44	11	44	44	
New Orleans		40.0	40.0	40.0							44	_		_	44	44	44	4	7	
New York	59.4	69.5	49.5	20.00								_	_	_	44	44	44	44	4	
Omaha	49.5	49.5	10 K	40.00	05.00	000	10.0	112.5	112.5	112.5	44	44	44 44	14	44	44	7	1	1	
		0	200	15.0							++	_	_		44	44	7	11	7	
Philadelphia	50.0	50.0	50.0	50.0							***									
Pittsburgh	55.0	55.0	57.5	60.0	0.09	70.07	80.0	0.06	112.5		44				44	#:	4:	4:	4:	
Fortland, Oreg.	56.3	56.3	56.3	56.3							44				#:	4.	#:	#:	#:	-
riovicence	46.0	48.0	48.0	50.0					100.0	87.5	44	44	14	77	44	# 7	14	# 3	# :	-
Richmond, Va															:	*	11	F	F	
St. Louis	60.0	60.0	0 00	000								:	:	_	48	48	48	48	48	
St. Paul	50.0	50.0	20.0	50.0	20.0	36.00	20.02	380	100.0	100.0	44	44	44 44	4:	44	4:	4	14	4	
Salt Lake City	57.5	57.6	62.5	62.5							44				44	44	4:	4:	4:	
San Unonologo	000	0									:				‡	#	#	4	+	
Serenton	20.00	80.00	68.8	68.8			100.0		125.0		44				44	44	44	44	44	-
Seattle	5.5	40.8	40,8	46.9	20.00	56.3	75.0	87.5	87.5	87.5	48 19	48 4	44 44	4	44	44	4	4	14	
Washington	200	20.00	20.00	07.0			0.0		100.0		44				44	44	44	44	44	-
	0.00	0.00	0.00	0.00			0.07		100.00		44				44	44	44	44	44	-
									-1/2-1		-	_								- 2.

1 44 hours per week, June to August, inclusive. 11 4 Prevailing rate; no effective union scale.

13 48 hours per week, October to April, inclusive.
19 44 hours per week, June to September, inclusive

30 44 hours per week, July to September, inclusive. 52 44 hours per week, June 15 to Sept. 15, inclusive.

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10.01 00.01 00.01 80.0 85.0 125.0 125.0 104.0

Structural-iron workers.

UNION SCALE OF WAGES AND HOURS OF LABOR IN SPECIFIED CITIES AND OCCUPATIONS, 1913 TO 1922-Concluded.

## Stonecutters.

City.				Rat	es per hour (cents).	our (cent	8).							Hor	Hours per week.	week.		*	
	1913	1914	1915	1916	7161	1918	6161	1920	1921	1922	1913	1914	1915	1 9161	1 2161	1918 19	1 6161	1920	1921 1922
Atlanta. Baltimore	25.05	50.0	50.0	56.0							1 84	84	*#	**	44	13	122	11	22
Buffalo Chicago	92.55 92.55 52.53 52.53	85.89 8.80 8.80 8.80	92.55 92.65 62.60 60.00	8 8 8 8 8 8 8 8	70.05	620.0	8.7.0 81.30 81.30	126.0	125.00	100.0	<b>434</b>	484	484	<b>444</b>	<b>444</b>	<b>111</b>	<b>111</b>	<b>3 3 3 3</b>	<b>111</b>
Cincinnati. Cleveland Dallas. Denver.	800000 8000000000000000000000000000000	62.2.3 62.2.3 62.2.3 63.2.3 63.3 63.3 63	622.50	62225 62255 62255	65.0 75.0 75.0 76.0 76.0	77.50	8.88.89	115.0	125.0 125.0 112.5	125.0 110.0 125.0 112.5	23333	21111	<b>1</b> 1111	2,1111	11111	44444	22222	****	<b>***</b>
Indianapolis. Kansas City, Mo. Little Rock Louisville. Memphis.	8 8 9 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9	8.88.88.88 8.80.80 8.80.80	65.55.0 65.0 65.0 65.0 65.0	85.55.55 85.55.55 85.00 85.00 85.00	65.55.55 85.05.55 85.000	750.00 250.00 250.00	55.0 6.5.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00.000	100.0 100.0 112.5 100.0	100.0 100.0 100.0 12.5	24284	<b>444</b> 84	44484	33333	*****	22222	33333	<b>4444</b>	22222
Milwaukee Minneapolis Newark, N. J New Haven New Orleans.	20 00 00	62. 5 56. 3	62. 66.8 56.8 8	68.8 56.8 38.5	68.8 68.8 86.3	68.85 60.05 0.05	75.0 80.0	87.5 112.5 100.0	90.0 112.5 100.0 125.0	90.0 112.5 100.0 125.0	333	111	111	111	111	333	222	111	33333
New York Omaha. Philadelphia Richmond, Va St. Louis.	88.82.42 880.42.62	88.88.88.98.98.98.08.08.08.08.08.08.08.08.08.08.08.08.08	65.55.88 62.55.88 63.55.88	68.88.88 62.4.88 88.88.88	88.08.48.98 88.08.98	68.8 67.5 68.0 70.0	25.25.25 40.35.25 40.30.35	100.0 100.0 135.0 87.5	112.5 112.5 135.0 100.0	112.5 100.0 100.0 100.0	<b>444</b> 44	<b>3333</b> 3	<b>2222</b> 2	11111	11111	22222	22222	33333	11111
St. Paul. San Francisco. Scranton.	26.3 20.0 20.0	60.0 70.0 50.0	60.0 70.0 50.0	80.0 70.0 80.0	62. 5 70. 0 50. 0	62.5 70.0 56.3	75.0 100.0 60.0	87.5 100.0 90.0	112.5	100.0	448	<b>44</b> %	448	444	111	111	111	444	***
Washington	54.0	54.0	54.0	56.3	56.3	65.0	87.5	100.0			44	44	- T	44	44	44	44	44	14

11111	#####	<b>32333</b>	######################################	2444 VVD 1	3333	####
<b>4444</b>	44444	33333	33333	4444	4444	<b>4</b> 444
<b>33333</b>	33333	33333	11111	<b>3</b> 333	2222	3333
<b>44444</b>	33333	22222	11111	3333	2223	<b>11</b> 31
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 3 2	22233	13111	33333	2222	2222	* ****
44844 44844	22223	38323	*****	2222	1434 1434	3 4844
4488 84 444 444	22222	184144 184144	11111 11111	3333	3 4 4 4 4 4 4	2 2 2 2 2 2 2 2
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14844	44484 44484	28848 48848	44448	2222	<b>4484</b>	4344
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7.000 7.000 7.000 7.000	90.0 75.0 75.0	75.0 70.5 70.0 88.8	2.08.78.75 00.000 00.000	92.5 87.5 87.6 80.0	80.0 88.8 81.3	88.8 87.8 80.0
6.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	65.0 65.0 75.0	\$6.00 \$0.00 \$0.00 \$0.00 \$0.00	25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00	70.07 70.00 68.00	62.5 68.5 68.5	75.0 75.0 0.0 0.0 0.0
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682 682 682 682 682 683 683 683 683 683 683 683 683 683 683	68.00 68.00 68.00	65.0 62.0 62.0 62.0 62.0 63.0	622 622.55 62.55 62.55	602 622 622 623 623 623 623 623 623 623 62	62.5 62.5 62.5 5	0.55.0 0.26.3 0.25.3 0.25.3
66.000 66.000 66.000 60.000	66.00 66.00 66.00 66.00	20 00 00 00 20 00 00 00 20 00 00 00	**************************************	60.0 62.5 62.5 86.3	96.55 96.50 92.50 50 50 50 50 50 50 50 50 50 50 50 50 5	75. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26
Baltimore. Boston. Chiralo. Chicago. Cincinnati.	Cleveland Dallas. Denver Detroit Indianapolis.	Kansas City, Mo. Los Angeles. Louisville. Milwaukee.	Newark, N. J. New Haven. New Orleans. New York. Omaha.	Philadelp <b>hia</b> Pittsburgh. Portland, Oreg. Frovidence.	Richmond, Va. St. Louis. St. Paul. Salt Lake City.	San Francisco. Scranton Seattle Washington

948 hours per week, September to April, inclusive. 19 48 hours 11 48 hours per week, November to April, inclusive. 19 44 hours

13 48 hours per week, October to April, inclusive.
19 44 hours per week, June to September, inclusive.

48 hours per week, December to March, inclusive. 44 48 hours per week, October to March, inclusive.

Wages and Hours of Labor in the Boot and Shoe Industry, 1913 to 1922.

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COMPARATIVE figures of average earnings per hour, average full-time hours per week, and average full-time earnings per week are presented in this article for employees in the principal occupations of the boot and shoe industry in the United States for the years 1913, 1914, 1916, 1918, 1920, and 1922. Index numbers (percentages) based on these averages with 1913 taken as the base or 100 per cent are also presented for all occupations for which 1913 data are available.

The figures for 1922, including 47,361 employees, are drawn from a survey made by the Bureau of Labor Statistics in 104 representative factories located in 13 States, namely, Massachusetts, New York, Ohio, Pennsylvania, Missouri, New Hampshire, Maine, Illinois, Wisconsin, New Jersey, Michigan, Minnesota, and Virginia. These States contain 98 per cent of the wage earners in this industry in the United States. The figures for other years are drawn from prior publications of the bureau. Data were not collected by the bureau for the years 1915, 1917, 1919, and 1921.

The data for all years covered were taken by agents of the bureau directly from the pay-roll records of the establishments. The number of establishments furnishing data has varied from year to year: 88 establishments were covered in 1913, the initial year of the table; in 1918, 143 establishments furnished data. The 1922 data were drawn from the January pay rolls of 2 factories, from the March pay rolls of 11 factories, from the April pay rolls of 40 factories, from the May pay rolls of 43 factories, and from the June pay rolls of 8 factories. The mass of the data, therefore, is as of April and May.

In the year ending December 31, 1921, the days of operation of 101 of the 104 establishments range from 174 to 308 days. The average was 282 days. One establishment was in operation a very few days in 1921. Two establishments resumed work January 1, 1922, after being closed all of 1921.

The difference between the average days of operation (282) and a possible full time of 313 days was due to the following conditions: Eight establishments did not operate any Saturday of the year, 5 did not operate some Saturdays, such loss of time ranging from 5 to 38 days; 34 establishments were closed by lack of orders from 5 to 93 days; 31 establishments were closed for inventory from 1 to 20 days; 6 establishments were closed by strikes from 12 to 39 days; and all were closed for holidays from 3 to 17 days.

Between April 1, 1920, and the date of the survey wage changes were reported as follows: One establishment gave an increase of 12½ per cent and later made a reduction of 10 per cent; 5 establishments made an increase of 20 per cent and later a reduction of 22½ per cent; 4 establishments gave an increase of 10 per cent and a later reduction of 10 per cent; 46 establishments made no increase during the period but made reductions ranging from 5 to 20 per cent; 48 establishments reported no change in wage rates within the period.

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AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME BARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT AND OCCUPATION, 1913 TO 1922.

70		513				Aver-	Inde	x num	bers.
Department and occupation.	Year.	Number of establishments.	Num- ber of em- ploy- ees.	Average full-time hours per week.	Average earnings per hour.	age full- time earn- ings per week.	Average full-time hours per week.	age earn- ings per	full- time earn- ings
Cutting department.									-
Cutters, vamp and whole shoe, hand: Male  Female Cutters, vamp and whole shoe, machine:	1913 1914 1916 1918 1920 1922 1922	71 75 113 114 91 84 2	1, 987 1, 812 2, 355 2, 319 2, 050 1, 915 9	54, 5 54, 0 53, 9 52, 0 47, 8 48, 3 48, 0	\$0.351 .366 .375 .484 .831 .787 .612	\$19. 05 19. 66 20. 12 25. 06 40. 29 38. 11 29. 02	100 99 99 95 88 89	100 104 107 138 236 224	100 103 106 132 211 200
Male	1913 1914 1916 1918 1920 1922	33 40 67 66 56 48	549 642 1,059 1,202 942 867	55. 3 55. 3 54. 9 52. 2 48. 9 49. 2	. 323 . 325 . 331 . 444 . 821 . 647	17. 77 17. 93 18. 07 23. 04 37. 94 31. 99	100 100 99 94 88 89	100 101 102 137 250 200	100 101 102 130 214 180
Cuttors trimmings hand:	1920 1922	8	73 62	53. 8 52. 5	. 393	21. 69 23. 51			
Male	1920 1922 1920	87 79 11	884 747 38	48. 0 48. 2 50. 1	. 454 . 460 . 283	22, 27 22, 02 13, 98			
Cutters, trimmings, machine:	1922	37	163	48. 0	. 430	14. 82 21. 20			
Female	1922 1920 1922	30 12 7	116 66 37	50. 3 50. 7 49. 8	.398 .273 .323	20. 05 13. 77 16. 20			
Skivers, upper: Male  Female  Cutters, linings, hand:	1913 1914 1916 1918 1920 1922 1913 1914 1916 1918 1920 1922	32 29 32 23 29 31 67 77 113 121 105 94	134 116 124 96 87 77 439 446 591 697 611 539	54. 5 54. 4 54. 6 50. 9 48. 1 47. 6 54. 6 54. 1 54. 0 51. 7 48. 7	. 299 . 299 . 311 . 423 . 601 . 595 . 209 . 209 . 209 . 267 . 439 . 430	16. 23 16. 13 16. 93 21. 55 28. 58 28. 48 11. 30 11. 26 14. 73 21. 47 20. 84	100 100 100 93 88 87 100 99 99 95 89	100 100 104 141 193 199 100 100 100 128 208 206	100 96 104 133 176 182 100 99 99 128 189
Male	1920 1922	58 66	233 229	47. 8 48. 0	. 670 . 684	32, 88 33, 82			
Cutters, linings, machine: Male Female	1920 1922 1922	48 42 2	111 98 2	49. 2 49. 6 51. 0	. 562	27. 82 27. 58 17. 01			
Sole leather department.	1922	a a	2	31.0	.337	17.01			
Cutters, outsole: Male  Cutters, insole:	1913 1914 1916 1918 1920 1922	42 47 64 76 60 52	196 225 345 416 331 264	55, 4 55, 0 54, 7 52, 1 48, 4 48, 5	.303 .302 .307 .405 .718 .706	16, 69 16, 64 16, 74 21, 02 34, 79 34, 09	100 99 99 94 87 88	100 100 101 134 236 233	100 100 100 126 206 206
- Material Control of the Control of	1920 1922	40 43	184 193	48. 4 48. 3	. 692 . 680	33, 55 32, 77			
Rounders, outsole or insole:  Male.  Female.	1920 1922 1920	73 76 8 4	161 158 12	48. 8 48. 9 48. 5 48. 8	. 578 . 563 . 411	28. 21 27. 48 19. 90			

AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT AND OCCUPATION, 1913 TO 1922—Continued

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Department and occupation.	Year.	Number of establishments.	r of ber of age full- ab- gh- ploy- nts. ees. age full- earn hours per	Average earnings per hour.	age full- time earn- ings per week.	Average full-time hours per week.	Aver- age earn-	A ver- age full- time earn- ings per week		
Sole leather department-Concluded.										
Channelers, outsole or insole: Male  Female Cutters, top and heel lifts, machine:	1913 1914 1916 1918 1920 1922 1922	75 77 107 122 108 89 4	196 213 255 268 240 198 5	55. 4 55. 2 55. 0 52. 5 48. 8 49. 3 50. 0	\$0.333 .331 .340 .430 .699 .649 .421	\$18, 42 18, 24 18, 69 22, 42 34, 23 32, 02 21, 04	100 100 99 95 88 89	100 99 102 129 209 195	100 99 101 122 186 174	
Male	1920 1922	47 43	232 364	49. 0 48. 5	.513	24. 95 25. 99				
Heel builders, hand: Male Female	1920 1922 1920 1922	15 15 8 9	58 49 60 34	50. 1 50. 4 46. 8 48. 0	. 568 . 495 . 415 . 429	28. 44 24. 74 19. 40 20. 46		*****	*****	
Heel builders, machine: Male  Female  Fitting or stitching department.	1920 1922 1920 1922	37 33 16 17	90 119 90 214	49, 2 48, 9 47, 3 48, 3	. 470 . 497 . 407 . 411	23, 19 24, 29 19, 38 19, 85		*****		
Stampers, linings or uppers:  Male  Female  Cementers and doublers, hand and	1920 1922 1920 1922	12 11 91 90	19 14 281 426	48. 1 49. 4 48. 0 48. 6	. 424 . 411 . 394 . 369	20, 59 20, 36 19, 02 17, 87			*****	
machine: Male  Female  Folders, hand:	1920 1922 1920 1922	14 8 107 89	21 29 1, 133 913	47. 5 48. 2 48. 6 48. 5	. 463 . 528 . 357 . 337	21. 78 25. 45 17. 29 16. 36				
Male. Female.	1922 1920 1922	5 48 56	13 379 471	48. 5 47. 8 48. 1	.793 .433 .429	37. 24 21. 09 20. 49				
Folders, machine: Male	1922 1920 1922	3 74 71	7 390 355	46. 6 48, 9 48, 7	.570 .405 .391	26.33 19.78 19.02				
Perforators: Male  Female	1920 1922 1920 1922	16 28 82 84	22 60 218 422	48. 5 49. 0 48. 2 48. 3	.517 .482 .435 .444	24. 44 23. 68 21. 19 21. 43	Ø			
Tip stitchers: Male. Female.	1922 1913 1914 1916 1918 1920 1922	6 79 83 124 125 106 92	10 337 348 442 437 355 362	47. 5 54. 7 54. 2 54. 0 51. 8 48. 7 48. 6	.546 .219 .219 .231 .288 .448 .424	26. 49 11. 94 11. 87 12. 45 14. 86 21. 77 20. 68	100 99 99 95 89 89	100 100 105 132 204 194	100 99 104 124 182 173	
Closers or seamers: Male Female	1920 1922 1920 1922	10 8 97 92	19 12 441 409	47.6 48.2 48.8 49.1	.642 .487 .399 .370	30.72 22.88 19.48 18.23				
Seam rubbers: Male Female	1920 1922 1922	16 18 69	28 26 157	48.7 47.6 49.1	.404 .348 .308	19. 23		*****		

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AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT AND OCCUPATION, 1913 TO 1922—Continued.

/ Jan 1						Aver-	Inde	x num	bers.
Department and occupation.	Year.	Number of establishments.		Average full-time hours per week.	Average earnings per hour.	age full- time earn- ings per week.	Average full-time hours per week.	Average earnings per hour.	full- time earn- ings
Fitting or stitching department—Contd.									
Lining makers:  Male Female	1922 1913 1914 1916 1918 1920 1922	80 84 126 132 112 97	8 854 852 1,004 1,138 1,149 1,055	46. 5 54. 6 54. 1 53. 9 51. 5 48. 6 48. 8	\$0.571 .190 .189 .198 .241 .380 .362	\$25, 29 10, 38 10, 21 10, 69 12, 35 18, 40 17, 71	100 99 99 94 89 89	100 99 104 127 190 191	100 98 10 <b>3</b> 119 177 171
Closers-on: Male	1922 1913 1914 1916 1918 1920 1922	3 74 77 83 90 47 35	3 349 347 360 351 133 129	49. 3 54. 4 53. 9 53. 6 52. 0 49. 4 50. 2	.752 .194 .193 .204 .237 .363 .394	36.71 10.53 10.42 10.95 12.28 17.94 19.88	100 99 99 96 91 92	100 99 105 122 185 203	100 99 104 117 170 189
Top stitehers: Male Female	1920 1922 1913 1914 1916 1918 1920 1922	16 19 82 86 128 135 112 100	57 64 1,070 1,076 1,427 1,364 1,187 1,195	48. 0 48. 1 54. 6 54. 2 54. 0 51. 6 48. 5 48. 8	.639 .657 .210 .212 .220 .285 .451	30. 74 31. 59 11. 47 11. 48 11. 87 14. 57 21. 94 21. 16	100 99 99 95 89 89	100 101 105 136 213 206	100 100 103 127 191 184
Binders: MaleFemale	1922 1920 1922	36	16 141 257	48. 5 50. 3 49. 3	. 455	32, 92 23, 03 23, 75			
Buttonhole makers: Male Female	1922 1913 1914 1916 1918 1920 1922	74 80 113 82 46	506 466 140 70	49.3	.194 .198 .217 .262 .397	19, 45 10, 60 10, 70 11, 65 13, 62 19, 48 18, 20	99 98 95 90	100 102 112 135 202 190	101 110 128 184
Button fasteners: Male	1920 1922	4 4 72 66 94 64 33	8 5 232 198 195 102 44	51. 8 53. 3 54. 8 53. 7 53. 8 52. 7 48. 4	392 3 .316 3 .199 .197 3 .211 .230 .388	20. 26 16. 81 10. 95 10. 57 11. 32 12. 06 18. 56	100 98 98 96 88	99 106 116 194	97 103 110 169
Eyeleters: Male Female	1920 1922 1918	31 31 92 92 71	73 223 232	48. 3 51. 7 48. 7	. 514 . 268 . 443	24. 64 13. 64 21. 61			
Vampers: Male  Female	1913 1914 1916 1918 1920	66 65 85 85 58 58 57 75 88 121 133	554 534 624 573 400 2 355 9 1, 072 1, 110 1 1, 383 2 1, 473 1 1, 313	54. 8 54. 6 54. 6 3 51. 3 47. 47. 54. 6 54. 554. 6 54. 53. 7 51. 3	8 .326 6 .312 6 .333 5 .442 9 .246 7 .246 7 .247 9 .254 7 .312 8 .512	17. 47 17. 06 18. 14 12. 22. 73 13. 85 13. 16 13. 16 13. 66 14. 13. 66 16. 11 12. 25. 0	7 100 1 100 1 100 3 94 5 87 9 87 1 100 1 99 6 99 1 98	98 104 138 7 219 7 196 0 100 9 103 5 12 9 20	8 90 1 10 3 13 9 19 6 17 10 9 9 13 10 7 12 8 18

AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT AND OCCUPATION, 1913 TO 1922—Continued.

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Department and occupation.	Year.	Number of establishments.	ber of em- ploy-	age full- time hours per week.	Average earnings per hour.	age full- time earn- ings per week.	Aver- age full- time hours per week.	age earn-	A ver- age full- time earn- ings per week.	
Fitting or stitching department—Concld.				nam	1 17	ri e rysl	ımlı			
Barrers: Male Female	1922 1920 1922	5 69 64	6 138 110	50. 0 48. 5 48. 7	\$0.472 .393 .368	\$23, 17 19, 21 17, 93		*****		
Tongue stitchers: Male. Female.	1922 1920 1922	1 69 63	1 194 205	44. 0 48. 8 48. 7	. 965 . 350 . 362	42, 46 16, 95 17, 75			*****	
Fancy stitchers: Male. Female.	1922 1920 1922	8 43 75	18 179 764	48. 3 47. 7 48. 6	. 561 . 460 . 444	27. 19 22. 50 21. 54			*****	
Backstay stitchers: Male Female	1922 1913 1914 1916 1918 1920 1922	4 78 82 125 124 98 83	9 389 432 575 560 428 402	46. 7 54. 7 54. 3 54. 0 51. 9 48. 7	.769 .195 .197 .213 .261 .471	35, 03 10, 62 10, 68 11, 47 13, 49 20, 52	100 99 99 95 89	100 101 109 134 214 194	100 101 108 127 193	
Table workers:  Male Female	1922 1920 1922	3 47 86	11 332 797	48. 8 49. 5 47. 3 48. 7	.378 .327 .330 .285	16. 11 15. 78 13. 85				
Lacers: Male  Female  Lasting department.	1920 1922 1920 1922	9 8 86 71	14 12 193 142	48.1 47.8 48.5 48.5	. 452 . 325 . 350 . 367	21. 48 14. 39 16. 94 17. 86				
Last pickers or sorters: Male Female	1920 1922 1922	72 81 1	271 238 3	48. 3 48. 8 48. 0	. 458 . 426 . 269	22, 05 20, 78 12, 91			*****	
Assemblers, for pulling over machine: Male  Female	1913 1914 1916 1918 1920 1922 1920 1922	54 64 97 102 88 70 23 15	597 708 801 726 691 593 77 58	55. 4 55. 3 55. 0 52. 6 48. 6 49. 0 48. 5 49. 0	. 272 . 279 . 291 . 398 . 642 . 567 . 500 . 434	15. 01 15. 37 16. 02 20. 85 31. 49 27. 94 24. 20 21. 35	100 100 99 95 88 88	100 103 107 146 235 208	100 102 107 139 210 181	
Pullers-over, hand: Male	1913 1914 1916 1918 1920 1922	52 49 46 35 25 16	937 749 543 344 211 97	55. 3 54. 9 54. 8 51. 7 47. 0 46. 7	.333 .350 .347 .478 .803 .813	18. 37 19. 21 18. 99 24. 62 38. 17 38, 29	100 99 99 99 93 85 84	100 105 104 144 241 244	100 105 103 134 208 208	
Pullers-over, machine: Male	1913 1914 1916 1918 1920 1922	60 71 116 124 101 91	421 443 640 612 552 554	55. 4 55. 5 55. 0 52. 6 48. 8 48. 9	.351 .356 .377 .512 .837 .732	19. 42 19. 66 20. 70 26. 77 41. 08 36. 06	100 100 99 95 88 88	100 101 107 146 238 209	100 101 107 138 212 186	
Side lasters, hand: Male	1913 1914 1916 1918	20 20 40 43 42 31	224 237 358 394 445 362	54. 2 54. 0 54. 1 51. 9 48. 2 47. 8	.303 .308 .325 .440 .706	16. 40 16. 59 17. 57 22. 74 35. 35 29. 28	100 100 100 96 89	100 102 107 145 234 203	100 101 107 139 216 179	

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AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT AND OCCUPATION, 1913 TO 1922—Continued.

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Department and occupation.	Year.	Number of establishments.		Average full-time hours per week.	Average earnings per hour.	age full- time earn- ings per week.	Average full-time hours per week.	age earn-	full- time earn- ings	
Lasting department—Concluded.					100				1	
Side lasters, machine: Male	1913 1914 1916 1918 1920 1922	16 16 45 57 51 56	155 167 291 292 322 338	56. 1 54. 3 54. 9 52. 2 48. 9 49. 3	\$0.323 .343 .339 .468 .776 .620	\$18, 23 18, 54 18, 53 24, 35 37, 68 30, 79	100 97 98 93 87 88	100 106 105 145 239 192	100 102 102 134 207 169	
Bed machine operators: Male	1913 1914 1916 1918 1920 1922	65 70 93 104 93 86	1, 220 1, 173 1, 336 1, 303 1, 252 1, 167	55. 2 55. 1 55. 0 52. 1 48. 7 48. 9	.330 .321 349 .500 .791 .668	18. 21 17. 68 19. 13 25. 98 38. 61 32, 78	100 100 100 94 88 89	100 97 106 152 239 202	100 97 105 143 212 180	
Hand-method lasting machine operators: Male	1913 1914 1916 1918 1920 1922	41 41 66 59 30 27	449 456 556 411 213 178	55. 3 55. 5 55. 1 52. 9 48. 9 49. 3	.357 .348 .361 .479 .805 .735	19, 72 19, 25 19, 82 25, 22 39, 06 36, 38	100 100 100 96 88 89	100 97 101 134 223 206	100 98 101 128 198 184	
Turn lasters, hand: Male	1913 1914 1916 1918 1920 1922	28 31 42 35 33 30	524 689 974 752 666 571	55. 0 54. 4 54. 9 53. 8 47. 1	.310 .324 .365 .453 .889	17. 00 17. 56 29. 07 24. 34 42. 49	100 99 100 98 86	100 105 118 146 284	100 103 118 143 250	
Turn lasters, machine: Male	1920 1922	10 7	102	48. 5 48. 6 48. 1	.732 .756 .639	35. 76 37. 35 30. 50	88		210	
Turn sewers: Male	1916 1918 1920 1922	29 25 30 25	81 67 71 55	54. 4 53. 7 49. 1 49. 8	. 442 . 590 . 940 . 801	24, 00 26, 75 46, 26				
Tack pullers, hand: Male	1920 1922	39 38	155 114	47. 8 47. 9	.472	22. 53 22. 58				
Tack pullers, machine: Male Female	1920 1922 1920 1922	70 62 7 5	270 234 21 23	48. 9 49. 0 49. 0 48. 9	. 451 . 399 . 349 . 299	21. 88 19. 68 16. 84 14. 57				
Bottoming department.  Goodyear welters: Male	1913 1914 1916 1918 1920	70 74 89 93 80	472 439 467 469 415	55. 3 55. 2 54. 9 52. 3 48. 6	.501 .503 .520 .620 .978	27. 60 27. 68 28. 50 32. 29 47. 81	100 100 99 95 88	100 100 104 124 194	100 100 103 117 173	
Welt beaters and slashers:	1922	74	375 156	48. 4	. 889	43, 30 28, 85	88	177	157	
Bottom fillers, hand and machine:	1922	63	107	48.9	. 531	25. 98		*****		
Male Female Sole cementers, hand and machine:	1920 1922 1922	69 69 1	131 125 2	48.7 48.7 48.0	. 570 . 500 . 615	29. 52	******			
Male	1920 1922 1920 1922	70 68 20 8	134 143 30 10	48. 8 48. 8 48. 9 50, 3	. 428 . 408 . 339 . 343	20. 11 16. 33	******			
Male	1920 1922	17	43	49. 4 47. 1	. 595					

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Sluggers: Male Fem:

Buffers: Male

Fem: Edge set Male

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AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT AND OCCUPATION, 1913 TO 1922—Continued,

Department and occupation.		Num- ber of estab- lish- ments.	or of ber of em- sh- ploy-	r of full- m- oy- hours	age earn- ings per	Aver-	Inde	Index numbers,		
	Year.					age full- time earn- ings per week.	Average full-time hours per week.	age earn-	full tim earn ing	
Bottoming department—Continued.			-				-			
Sole layers, machine: Maie  Female	1920 1922 1922	77 79 1	206 229 1	48. 4 48. 6 50. 0	\$0.718 .645 .384	\$34.39 31.32 19.22				
Rough rounders: Male	1913 1914 1916 1918	69 73 91 97	265 252 296 285 240	55. 2 55. 1 54. 9 52. 4	. 497 . 503 . 491 . 593	27. 37 27. 64 26. 89 31. 99	100 100 99 95	100 101 99 119	1 1	
Female	1920 1922 1922	82 75 1	240 228 2	48. 7 48. 7 50. 0	.938 .818 .514	45. 68 40. 00 25. 71	88 88	187 165	1	
Male	1920 1922 1920 1922	84 77 17 14	280 255 44 29	49. 0 49. 2 49. 8 50. 0	.491 .443 .348 .390	23. 75 21. 76 17. 66 20. 17				
Goodyear stitchers: Male. Female.	1913 1914 1916 1918 1920 1922 1922	70 74 97 105 86 77	642 594 656 680 599 543	55. 2 55. 1 54. 8 52. 4 48. 6 48. 6 50. 0	.399 .410 .437 .527 .822 .755 .408	21. 96 22. 57 23. 87 27. 47 40. 07 36. 67 20. 40	100 100 99 95 88 88 88	100 103 110 132 205 190		
McKay sewers: Male	1913 1914 1916 1918 1920 1922	32 39 61 62 45 39	136 147 210 203 158 138	55. 6 55. 7 55. 2 52. 9 .49. 4 50. 2	.319 .338 .349 .449 .712 .659	17. 70 18. 77 19. 51 23. 56 35. 53 33. 38	100 100 99 95 89 90	100 106 109 141 223 207	* * *	
Stitch separators: Male	1920 1922 1922	63 45 4	156 108 4	49. 0 48. 7 47. 8	. 563 . 498 . 408	27. 16 24. 45 18. 89				
Levelers: Male	1913 1920 1922 1922	75 94 96 2	289 323 318	55, 2 48, 9 49, 0 51, 7	.304 .654 .580	16. 74 32. 09 28. 43	100 89 89	100 214 191		
Heelers, leather: Male	1913 1914 1916 1918 1920 1922	72 84 130 137 111 98	201 324 440 419 382 348	51. 7 55. 3 55. 3 55. 0 52. 8 48. 7 48. 9	. 370 . 424 . 402 . 430 . 502 . 832 . 759	19. 14 23. 32 22. 18 23. 59 26. 37 40. 73 37. 15	100 100 99 95 88 88	100 95 101 118 196 179	0 0 0	
Heelers, wood: Male	1918 1920 1922	18 33 27	248 533 245	54. 1 47. 4 47. 9	. 477 . 899 . 706	25. 61 42. 92 33. 54			***	
Heel trimmers or shavers: Male	1913 1914 1916 1918 1920 1922	81 85 121 128 103 94	277 277 367 350 284 246	55. 4 55. 2 54. 9 52. 6 48. 8 48. 9	. 448 . 433 . 449 . 535 . 897 . 853	24. 74 23. 88 24. 55 27. 99 44. 26 38. 04	100 100 99 95 88 88	100 97 100 119 199 190		
Heel breasters: Male.  Female.	1913 1914 1916 1918 1920 1922 1922	75 82 111 113 100 80	171 173 232 218 195 161	55. 4 55. 3 54. 8 52. 9 48. 8 49. 2 52. 5	.313 .303 .319 .412 .725 .587	17. 27 16. 71 17. 50 21. 70 35. 38 29. 05 15. 64	100 100 99 95 88 89	100 97 102 132 230 188		

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MONTHLY LABOR REVIEW.

AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEEK, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT AND OCCUPATION, 1913 TO 1922—Continued.

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Department and occupation.	Year.	Num- ber of estab- lish- ments.	Number of employees.	Average full-time hours per week.	Average earnings per hour.	age full- time earn- ings per week.	Average full-time hours per week.	Average carnings per hour.	full- time earn- ings
Bottoming department—Concluded.									
Edge trimmers: Male.	1913 1914 1916 1918 1920 1922	81 85 129 138 112 100	838 886 1,081 1,015 828 789	55. 4 55. 1 54. 9 52. 5 48. 7 48. 9	\$0,410 .400 .423 .545 .908 .764	\$22,66 22,01 23,16 28,44 44,19 37,36	100 99 99 95 88 88	100 98 103 133 220 186	100 97 102 126 195 165
Sluggers: Male	1920 1922 1922	79 68 1	153 96 2	49. 2 49. 2 50. 0	.604 .547 .388	29, 57 26, 95 19, 39			
Finishing department.									
Buffers: Male  Female	1913 1914 1916 1918 1920 1922 1922	72 81 129 129 111 98 2	358 396 535 476 449 408 2	55. 3 55. 3 54. 9 52. 7 48. 8 49. 0 48. 8	.318 .309 .327 .424 .729 .630 .493	17. 52 17. 05 17. 92 22. 20 35. 69 30. 95 23. 82	100 100 99 95 88 89	100 97 103 133 228 198	100 97 102 127 204 177
Edge setters: Male	1913 1914 1916 1918 1920 1922	77 86 131 138 112 99	826 872 966 924 845 779	55. 3 55. 2 54. 9 52. 7 48. 7 48. 9	.411 .410 .414 .525 .881 .757	22. 70 22. 54 22. 62 27. 57 42. 84 37. 02	100 100 99 95 88 88	100 100 101 128 212 184	100 99 100 121 189 163
Heel scourers:	1913	78	364	55. 4	.314	17.35	100	100	100
	1914 1916 1918 1920 1922	84 125 129 108 97	372 504 470 451 421	55. 3 55. 0 52. 7 48. 7 48. 9	.310 .346 .438 .732 .607	17. 35 17. 10 18. 94 22. 92 35. 38 29. 79	100 100 99 95 88 88	99 110 139 231 193	99 109 132 204 172
Heel burnishers: Male	1913 1914 1916 1918 1920 1922	75 84 127 128 109 92	280 283 367 325 304 300	55. 5 55. 5 55. 2 52. 8 48. 7 48. 9	.317 .322 .325 .433 .710 .584	17. 54 17. 86 17. 84 22. 66 34. 50 28. 75	100 100 99 95 88 88	100 102 103 137 222 184	100 102 102 129 197 164
Brushers: Male Female	1920 1922 1920	86 80 17	300 298 36	48.4 48.9 49.6		22. 96 21. 10 16. 62			
Shoe cleaners: Male	1922 1920 1922	10 34 36	109 150	50. 5 48. 1 49. 0		16. 42 23. 10 21. 15			
Female	1920 1922	28	175 193	48.8	.337	16.09 15.79			
Last pullers: Male	1920 1922	97 88	266 233	48. 9 49. 0	. 525	25. 34 22, 74			
Female	1922	0 1	1	48.0	1, 75, 14,	8.98			
MaleFemale	1913 1914 1916 1918 1920 1922 1913 1914 1916 1918 1920 1922	73 80 124 125 98 90 13 18 15 31 37 35	1,110 1,204 1,652 1,387 1,106 970 110 107 144 211 296 228	55. 3 55. 3 54. 9 52. 3 48. 6 54. 6 52. 1 53. 1 49. 8 49. 3	. 291 . 403 . 683 . 577 . 158 . 175 . 188 . 232 . 403	15. 54 15. 38 15. 99 21. 09 33. 18 28. 12 8. 56 9. 06 9. 93 12. 25 20. 07 19. 51	100 100 99 95 87 88 100 95 97 98 91	100 99 103 143 244 205 100 111 119 147 255 251	100 99 103 136 214 181 100 106 116 143 234 282

AVERAGE FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, FULL-TIME EARNINGS PER WEE, AND INDEX NUMBERS IN THE BOOT AND SHOE INDUSTRY IN THE UNITED STATES, BY DEPARTMENT AND OCCUPATION, 1913 TO 1922—Concluded.

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Derartment and occupation.	Year.	Number of establishments.	ploy-	Average full-time hours per week.	Average earn- lngs per hour.	Average full-time earnings per week.	Average full-time hours per week.	Average earnings per hour.	Average full-time earn ings per week
Finishing department—Concluded.									
Repairers (not cobblers): Male  Female	1920 1922 1920 1922	57 49 87 79	169 126 711	48.1 48.3 47.7	\$0.510 .462 .394	\$24.37 22.30 18.69	•••••	* * * * * * * * * * * * * * * * * * *	*****
Dressers: Male	1922 1920 1922	11 14	668 16 18	48. 2 47. 6 48. 6	.377	18. 18 18. 47 19. 04	*****	******	* * * * * *
Female	1920 1922	78 73	253 288	48. 5 49. 0	.369	17.81 17.35			*****
Male	1920 1922	14 11	30 21	48.8 48.5	.381	18.70 18.25			
Lacers:	1920 1922	95 93	321 279	48.7	.375	18. 13 17. 36			*****
Male Female	1920 1922	9 4	11 7	48. 5 47. 9	. 444	20. 70 13. 71			
Dackers	1920 1922	89 81	304 235	48.7 48.9	.325	15. 64 14. 81	* * * * * * *		*****
Female	1920 1922 1920	38 17 100	96 43 503	49. 2 50. 0 48. 3	. 472 . 477 . 355	24. 02 23. 75 17. 10		• • • • • •	
All departments.	1922	90	397	48. 2	. 351	16. 97			*****
Other employees: Male	1914	91	20,887	55.0	. 224	12. 29			
A TOTAL OF THE STATE OF THE STA	1916 1918 1920	143	24,010 23,324 10,445	55. 0 52. 7 48. 7	. 243 . 327 . 518	13. 35 17. 17 25. 22	• • • • • • • • • • • • • • • • • • • •		
Female	1922 1914 1916 1918 1920 1922	89 134	10,027 12,347 14,851 16,007 6,964 5,032	49. 0 54. 0 53. 8 51. 8 48. 6 48. 8	.461 .168 .179 .226 .361	22. 58 9. 05 9. 62 11. 67 17. 73 16. 39			

Wages and Hours of Labor in the Cotton Manufacturing Industry in the Southern States, 1907 to 1922.1

SURVEY of wages and hours of labor was made in representative cotton mills of the South by special agents of the Bureau of Labor Statistics in the early part of 1922. Data were obtained from the records of 58 mills and covered 29,759 employees. Of the 58 mills, 6 were in Alabama, 9 in Georgia, 21 in North Carolina, 19 in South Carolina, and 3 in Virginia. Of the 29,759 employees, 4,799 were in Alabama, 5,845 in Georgia, 7,371 in North Carolina, 9,158 in South Carolina, and 2,586 in Virginia. In 43 mills, the data were drawn from pay rolls of May, 1922; for 14 mills, the data are as of April; and for 1 mill, as of June.

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Card grin Male

Drawing Male

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<sup>&</sup>lt;sup>1</sup> A similar statement as to wages and hours of labor in cotton mills in Massachusetts was published in the May, 1922, MONTHLY LABOR REVIEW.

From the data collected, a table has been made showing average earnings per hour, average full time hours per week, and average full time earnings per week, for each of the principal occupations and for a group of "other employees" which includes all occupations not presented separately.

The averages for 1922 are shown in the following table, in comparison with like figures for preceding years taken from bulletins of the bureau, which, for some occupations, were available for certain years back as far as 1907. Wage data are not available for 1915,

1917, 1919, and 1921.

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age full-time

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per

Week.

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Paralleling the averages, the table shows index numbers for full time hours per week, earnings per hour, and full time earnings per week, in which 1913 is taken as the base, or 100, so far as 1913 data are available.

The high point of wages was reached in 1920. Up to the time of the survey, the 58 mills reported reductions ranging from 231 per cent to 50 per cent, with an average for all mills of 38 per cent, as

compared with the peak of 1920.

During the year ending December 31, 1921, these 58 mills were in operation an average of 284 days. The causes of the average 81 days of idleness were reported as follows: Lack of orders, 11 days; holidays and vacations, 8 days; strikes, 7 days; shortage of power, 2 days; repairs, etc., 1 day; Sundays, 52.

WAGES AND HOURS OF LABOR IN THE COTTON-MANUFACTURING INDUSTRY IN THE SOUTHERN STATES, 1907 TO 1922.

#### Alabama.

是 特別等 特別	1000	Num-	Num-	Aver-	Aver-			x nun avera	
Occupation and sex.	Year.	ber of estab- lish- ments.	ber of em- ploy- ees.	age full- time hours per week.	age earn- ings per hour.	full- time earn- ings per week.	Full- time hours per week.	inge	Full- time earn- ings per week.
Picker tenders:									
Male	1920	6	84	58, 9	\$0,312	\$18, 38			
	1922	6	65	56. 2	. 203	11.41			
Card tenders and strippers:	-								
Male	1907	3 7	13	66. 0	. 093	6.14	107	-88	94
	1913	7	21	61.9	.106	6. 56	100	100	100
1 The State of the 1972	1914	8 8	23	60. 1	.112	6, 73	97	106	103
Designation of the Control of the	1916	8	29	60.6	.119	7. 24	98	112	110
the second second second second	1918	8	26	60. 3	. 196	11.79	97	185	180
The last the last the last	1920	6	110	58. 5	. 323	18, 90	95	305	288
	1922	6	113	56. 0	. 209	11.70	90	197	178
card grinders:	100		7723	-					
Male	1920	6	25	58. 2	. 486	28, 29			
	1922	6	25	55. 6	. 322	17.90			
Drawing frame tenders:	Ji.	1	100						
Male	1907	3	15	66.0	. 069	4. 55	108	79	86
	1913	6	30	61.0	. 087	5. 31	100	100	100
The second second second second	1914	5 5	49	60. 2	. 094	5. 64	99	108	106
	1916	5	56	60. 2	. 101	6. 10	99	116	115
	1918	4	15	60.3	. 163	9. 81	99	187	185
	1920	4	27	57. 2	. 279	15. 96	94	321	301
Posses	1922	4 3	32	54. 4	.179	9.74	89	206	183
Female	1907		30	66. 0	.067	4.42	110	79	87
The second second second second	1913	6	30	60. 0	.085	5.10	100	100	100 81
	1914	4	26	60. 0	.069	4.11	100	81	102
	1916	6	51	60. 0 59. 8	.086	5. 18	100	101	102
	1918	5	61		.144	8. 61	98	298	293
	$\frac{1920}{1922}$	5	65 60	59. 0 56. 3	. 253	14, 93 9, 12	94	191	179

[585]

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om fixer Male...

Weavers: Male...

Female

Female

Other emp Male..

Femal

Picker ten Male. Card tend Male..

Card grind Male.

WAGES A

WAGES AND HOURS OF LABOR IN THE COTTON-MANUFACTURING INDUSTRY IN THE SOUTHERN STATES, 1907 TO 1922—Continued.

Alabama—Continued.

	di ei	Num-	Num-	Aver-	Aver-	Aver-	Inde	avera	nbers ge-
Occupation and sex.	Year.	ber of estab- lish- ments.	ber of em- ploy- ees.	full- time hours per week.	age earn- ings per hour.	full- time earn- ings per week.	Full- time hours per week.	Earn- ings per hour	earn-
Slubber tenders: Male	1916 1918 1920 1922	8 8 6 6	76 70 70 59	60. 2 59. 4 58. 9 56. 1	\$0.148 .212 .425 .276	\$8, 91 12, 67 25, 03 15, 48		*****	
Speeder tenders: Male  Female  Spinners, frame:	1967 1913 1914 1916 1918 1920 1922 1907 1913 1914 1916 1918 1920 1922	365665637888666	42 57 56 160 112 132 136 37 77 103 137 123 118 89	66. 0 61. 2 60. 0 60. 0 60. 0 58. 8 55. 6 66. 0 61. 7 60. 1 58. 7 55. 6	.092 .128 .137 .147 .204 .400 .253 .103 .122 .123 .139 .177 .331 .230	6. 07 7. 83 8. 19 8. 79 12. 26 23. 52 14. 07 6. 80 7. 53 7. 42 7. 53 7. 42 10. 66 19. 43 12. 79	108 100 98 98 98 96 91 107 100 98 97 97 97	72 100 107 115 159 313 198 84 100 101 114 145 271 189	70 100 108 112 153 300 180 190 110 90 111 142 258 170
Female.	1907 1922 1907 1913 1914 1916 1918 1920 1922	3 3 3 7 8 8 8 6 6	11 41 361 374 454 587 501 510 505	66. 0 56. 5 66. 0 61. 8 60. 1 60. 1 59. 0 57. 5 55. 7	.072 .174 .073 .097 .098 .105 .169 .293 .179	4. 75 9. 83 4. 82 5. 99 5. 91 6. 29 10. 00 16. 85 9. 97	107 100 97 97 95 93 90	75 100 101 108 174 302 185	80 100 96 105 167 281 166
Male	1916 1918 1920 1922	8 8 6 6	324 282 320 302	60. 2 58. 8 58. 6 55. 7	. 131 . 189 . 356 . 228	6, 42 11, 11 20, 86 12, 70		• • • • • •	
Spooler tenders: Female	1916 1918 1920 1922	8 8 6 6	314 280 255 280	60. 0 59. 8 58. 5 55. 8	.098 .144 .275 .178	5. 88 8. 63 16. 09 9. 93		•••••	
Creelers or tiers-in: Female	1920 1922	6	45 44	58. 2 55. 9	. 267 . 173	15. 54 9. 67		•••••	
Female.	1916 1918 1920 1922	7 7 6 6	24 31 29 30	60. 2 60. 1 58. 8 55. 8	.149 .200 .358 .245	8, 96 11, 93 21, 05 13, 67		•••••	
Male	1907 1913 1914 1916 1918 1920 1922	3 7 7 7 7 7 6 6	11 20 22 24 29 28 31	66. 0 61. 2 60. 1 60. 1 60. 0 57. 3 55. 5	.117 .144 .141 .145 .216 .391 .271	7. 72 8. 81 8. 47 8. 69 12. 96 22. 40 15. 04	108 100 98 98 98 98 94 91	81 100 98 101 150 272 188	88 100 96 99 147 254 171
Drawers-in: Female	1916 1918 1920 1922	7 7 6 5	30 30 24 28	60. 3 60. 2 57. 3 55. 4	.123 .162 .294 .191	7. 39 9. 76 16. 85 10. 58		• • • • • •	
Warp-tying machine tenders: Male	1920 1922	6	13 20	57. 3 55. 3	. 456	26. 13 16. 70			

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# WAGES AND HOURS OF LABOR IN THE COTTON-MANUFACTURING INDUSTRY IN THE SOUTHERN STATES, 1907 TO 1922—Continued.

Alabama-Concluded.

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Line with the same of the same				Aver-	Aver-	Aver-		x num averag	
Occupation and sex.	Year.	Number of establishments.		age full- time hours per week.	age earn- ings per hour.	full- time earn- ings per week.	Full- time hours per week.	Earn- ings per hour.	earn- ings
Loom fixers: Male	1907 1913 1914 1916 1918 1920 1922	3 7 8 8 8 6 6	82 137 109 179 158 166 188	66. 0 61. 7 60. 1 60. 1 60. 2 57. 4 55. 7	\$0. 160 .177 .188 .198 .284 .529 .363	\$10, 56 10, 92 11, 28 11, 85 17, 11 30, 36 20, 22	107 100 97 97 98 98 93 90	90 100 106 112 160 299 205	97 100 103 109 157 278 185
Weavers: Male	1907 1913 1914 1916 1918 1920 1922	3 7 8 8 8 6 6	200 343 531 520 331 305 426	66. 0 61. 4 60. 0 60. 0 60. 0 57. 4 55. 8	.124 .144 .146 .160 .235 .439 .255	8. 18 8. 84 8. 74 9. 60 14. 10 25. 20 14. 23	107 100 98 98 98 98 93 91	86 100 101 111 163 305 177	93 100 99 109 160 285 161
Female	1907 1913 1914 1916 1918 1920 1922	3 7 8 8 8 8 6 6	158 320 377 347 471 315 327	66. 0 61. 5 60. 3 60. 2 60. 2 57. 4 55. 8	.112 .128 .132 .146 .190 .378 .231	7. 39 7. 87 7. 98 8. 80 11. 42 21. 70 12. 88	107 100 98 98 98 98 93 91	88 100 103 114 148 295 180	94 100 101 112 145 276 164
Inimmers or inspectors: Female	1907 1913 1914 1916 1918 1920 1922	2 6 8 8 8 6 6	25 56 70 68 81 72 76	66. 0 62. 4 60. 0 60. 4 60. 2 58. 1 55. 6	.076 .100 .095 .096 .139 .239 .159	5. 02 6. 24 5. 68 5. 82 8. 36 13. 89 8. 84	106 100 96 97 96 93 89	76 100 95 96 139 239 159	80 100 91 93 134 223 142
Other employees: Male  Female	1914 1916 1918 1920 1922 1914 1916 1918 1920 1922	8 8 8 6 6 8 8 8 6 6		60. 5 60. 4 60. 2 57. 4 56. 0 60. 1 60. 3 58. 5 56. 3 54. 6	.114 .134 .195 .321 .202 .080 .080 .122 .217 .140	6. 90 8. 12 11. 80 18. 43 11. 31 4. 83 4. 82 7. 15 12. 22 7. 64			
HE ME LOS		Georgi	a.	,		1			
Picker tenders: Male	1920 1922	9				\$19.62 11.86			
Card tenders and strippers:  Male	1907 1913 1914 1916 1918 1920 1922	13 13 12 12 12 9	68 79 102 73 132	60. 0 60. 0 60. 0 56. 8	.118 .128 .134 .191 .359	7. 08 7. 68 8. 05 11. 45 20. 39	100 100 100 100 95	100 108 114 162 304	100 108 114 162 288
Card grinders: Male	1920 1922	8				28. 79 18. 38			

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WAGES AND HOURS OF LABOR IN THE COTTON-MANUFACTURING INDUSTRY IN THE SOUTHERN STATES, 1907 TO 1922—Continued.

WAGES

Slasher to Male.

Drawers-

Warp-tyi Male

Loom fix Male.

Weavers:

Fema

Trimmer Male Fema

Other en Male

Fem

#### Georgia—Continued.

- water with the state of the s	-	Num-	Num-	Aver-	Aver-	Aver-	Inde	avera	ibers
Occupation and sex.	Year.	Year. estab-	er of ber of tab- ish- ploy-		age earn- ings per hour.	full- time earn- ings per week.	Full- time hours per week.	Earn- ings per hour.	earn.
Drawing frame tenders:  Male  Female	1907 1913 1914 1916 1918 1920 1922 1907 1913 1914 1916 1918	3 13 12 11 11 7 9 3 9 7 5 5 8	8 86 90 101 75 45 64 22 26 54 40 48 69	65. 6 60. 0 60. 0 60. 0 56. 3 56. 1 63. 8 60. 0 60. 0 60. 0 56. 2	\$0.080 .100 .106 .107 .164 .339 .200 .073 .107 .103 .097 .143 .311 .189	\$5, 25 6, 00 6, 36 6, 44 9, 82 19, 09 11, 22 4, 66 6, 42 6, 18 5, 83 8, 59 17, 45 10, 62	109 100 100 100 100 94 94 106 100 100 100 94	80 100 106 107 164 339 200 68 100 96 91 134 291	88 100 106 107 164 318 187 73 100 90 91 134 277
Slubber tenders: Male	1916 1918 1920 1922	12 12 9 9	103 82 92 84	60. 0 60. 0 56. 2 56. 1	.153 .230 .490 .316	9. 19 13. 81 27. 48 17. 73			
Speeder tenders:  Male  Female  Spinners, frame:	1907 1913 1914 1916 1918 1920 1922 1907 1913 1914 1916 1918 1920	4 12 12 12 12 12 12 12 12 12 12 12 12 12	24 167 165 211 225 205 233 30 130 122 119 109 74	64. 8 60. 0 60. 0 60. 0 56. 8 56. 2 63. 8 60. 0 60. 0 60. 0 60. 0 60. 0	. 105 . 142 . 152 . 155 . 229 . 460 . 293 . 105 . 136 . 152 . 197 . 441 . 263	6. 80 8. 52 9. 12 9. 33 13. 73 26. 13 16. 47 6. 70 7. 98 8. 16 9. 11 11. 83 24. 96 14. 86	108 100 100 100 100 95 94 106 100 100 100 94 94	74 100 107 109 161 324 206 79 100 102 114 148 332 198	8( 100 107 116 161 307 193 84 100 102 114 145 313
Female	1907 1913 1914 1916 1918 1920 1922	13 13 12 12 12 9 9	196 788 787 789 739 679 654	64. 3 60. 0 60. 0 60. 0 59. 8 54. 6 55. 8	.087 .104 .108 .114 .170 .356 .225	5. 59 6. 24 6. 48 6. 87 10. 14 19. 44 12. 56	107 100 100 100 100 91 93	84 100 104 110 163 342 216	90 100 104 110 162 312 201
Doffers: Male	1916 1918 1920 1922	12 12 9 9	497 385 342 353	60. 0 59. 7 55. 9 56. 0	.124 .213 .437 .259	7. 44 12. 73 24. 43 14. 50			
Spooler tenders: Female	1916 1918 1920 1922	12 12 9 9	380 366 311 349	60. 0 59. 8 55. 5 55. 7	. 105 . 154 . 321 . 194	6, 29 9, 21 17, 82 10, 81			
Creelers or tiers-in: Female	1920 1922	7 8	47 49	56. 0 56. 2	.313	17. 53 10. 73			
Warper tenders: Male Female	1920 1922 1916 1918 1920 1922	4 4 10 10 5 8	13 8 42 40 27 31	56. 2 55. 6 60. 0 60. 0 56. 0 56. 0	.379 .267 .140 .184 .374 .246	21. 30 14. 85 8. 37 11. 04 20. 94			

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### WAGES AND HOURS OF LABOR IN COTTON MANUFACTURING. 109

WAGES AND HOURS OF LABOR IN THE COTTON-MANUFACTURING INDUSTRY IN THE SOUTHERN STATES, 1907 TO 1922—Continued.

Georgia-Concluded.

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Fulltime earnings per veek

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		Num-	Name	Aver-	Aver-	Aver-		ex nun averag	
Occupation and sex.	Year.	ber of estab- lish- ments.	Number of em- ploy- ees.	age full- time hours per week.	age earn-	full- time earn- ings per week.	Full- time hours per week.	Earn- ings per hour.	Full- time earn- ings per week.
Slasher tenders: Male  Drawers-in:	1907 1913 1914 1916 1918 1920 1922	4 13 13 12 11 9	12 61 68 73 62 55 59	64. 3 60. 0 60. 0 60. 0 56. 4 56. 8	\$0, 126 .146 .146 .149 .236 .442 .299	\$8. 10 8. 76 8. 76 8. 93 14. 25 24. 93 16. 98	107 100 100 100 100 94 95	86 100 100 102 162 303 205	92 100 100 102 163 285 194
Female	1916 1918 1920 1922	11 11 7 7	59 52 39 42	60. 0 60. 0 56. 8 56. 7	.131 .169 .402 .268	7. 86 10, 12 22, 83 15, 20			
Warp-tying machine tenders: Male	1920 1922	6 8	14 20	56. 4 56. 5	.520	29.33 19.78			*****
Male	1907 1913 1914 1916 1918 1920 1922	13 13 12 12 12 9 9	40 211 224 205 230 228 206	64. 4 60. 0 60. 0 60. 0 56. 7 57. 2	.152 .183 .183 .193 .270 .527 .353	9, 79 10, 98 10, 98 11, 56 16, 20 29, 88 20, 19	107 100 100 100 100 95 95	83 100 100 105 148 288 193	89 100 100 105 148 272 184
Weavers: Male	1907 1913 1914 1916 1918 1920 1922	13 13 12 12 12 9 9	207 850 842 782 618 494 610	64. 9 60. 0 60. 0 60. 0 56. 2 56. 8	.116 .145 .157 .161 .218 .476 .282	7. 53 8. 70 9. 42 9. 64 13. 07 26. 75 16. 01	108 100 100 100 100 94 95	80 100 108 111 150 328 194	87 100 108 111 150 307 184
Female.	1907 1913 1914 1916 1918 1920 1922	13 13 12 12 12 9 9	249 556 690 561 629 393 386	63. 8 60. 0 60. 0 60. 0 59. 9 56. 7 56. 7	.109 .133 .140 .144 .187 .430 .274	6. 95 7. 98 8. 40 8. 67 11. 22 24. 38 15. 54	106 100 100 100 100 95 95	82 100 105 108 141 323 206	87 100 105 109 141 306 195
Trimmers or inspectors:	1920	2	8	55, 0	. 262	14, 41			
Female.	1922 1913 1914 1916 1918 1920 1922	4 9 8 10 10 7 8	8 61 72 87 . 79 87 116	54. 9 60. 0 60. 0 59. 8 60. 0 55. 7 55. 8	. 216 . 103 . 105 . 097 . 136 . 269 . 179	11. 86 6. 18 6. 30 5. 78 8. 15 14. 98 9. 99	100 100 100 100 100 93 93	100 102 94 132 261 174	100 102 94 132 242 162
Other employees: Male  Female	1914 1916 1918 1920 1922 1914 1916	12 12 12 9 9 12 12	3,053 2,670 2,279 1,558 1,769 785 210	60. 3 60. 2 60. 2 56. 2 56. 7 60. 0	.125 .135 .198 .348 .223 .098 .097	7. 54 8. 12 11. 99 19. 56 12. 64 5. 86 5. 81			
	1918 1920 1922	10 8 9	344 358 416	57. 3 57. 4 55. 3	. 146 . 290 . 186	8. 43 16. 65 10. 29			

WAGES AND HOURS OF LABOR IN THE COTTON-MANUFACTURING INDUSTRY IN THE SOUTHERN STATES, 1967 TO 1922—Continued.

WAGES

North Carolina.

		Num-	Num-	Aver-	Aver-	Aver- age	Ind for	ex nun	nbers ge—	
Occupation and sex.	Year.	ber of estab- lish- ments.	ber of em- ploy- ees.	full- time hours per week.	age earn- ings per hour.	full- time earn- ings per week.	Full- time hours per week.	ings per	earn.	
Picker tenders:	1920	16	69	55. 2	\$0,417	\$23.02				Warper te
Card tenders and strippers:	1922	21	89	55, 3	. 267	14.77				Maios
Male	1907 1913 1914 1916 1918 1920 1922	13 13 22 22 22 19 21	13 40 47 87 72 145 131	66. 0 60. 0 60. 0 60. 0 55. 2 55, 2	.100 .117 .122 .129 .203 .477 .288	6, 60 7, 02 7, 34 7, 74 12, 18 26, 33 15, 90	110 100 100 100 100 92 92		94 100 105 110 174 375	Femal
Card grinders:	111.1		177.6				92	240	226	Male
Male	$\frac{1920}{1922}$	17	47	55. 2 55. 2	.574	31, 68 20, 76		• • • • • •	*****	
Drawing frame tenders: Male	1907 1913 1914 1916 1918 1920 1922	4 13 13 22 22 22 19 21	16 85 108 130 123 127 110	66, 0 60, 0 60, 0 60, 0 55, 1	.086 .100 .119 .126 .206 .468 .295	5, 68 6, 00 7, 14 7, 59 12, 34 25, 79 16, 25	110 100 100 100 100 92 92	86 100 119 126 206 468 295	95 100 119 127 206 430	Slasher te Male.
Slubber tenders:	100			55. 1					271	Drawers-i
Male	1916 1918 1920 1922	22 22 19 21	90 85 90 89	60, 0 60, 2 55, 2 55, 3	.159 .240 .562 .350	9. 53 14. 44 31. 02 19. 36				Femal
Speeder tenders: Male  Male  Female	1907 1913 1914 1916 1918 1920 1922 1907 1913 1914 1916 1918 1920 1922	4 13 13 22 22 22 19 21 3 8 8 17 17	39 125 148 381 345 319 327 8 46 58 63 72 46 37	66. 0 60. 0 60. 0 60. 0 55. 2 55. 2 66. 0 60. 0 60. 0 60. 0 55. 0 55. 1	.115 .145 .157 .159 .249 .559 .353 .113 .124 .122 .143 .208 .482 .322	7. 59 8. 70 9. 40 9. 51 14. 97 30. 86 19. 49 7. 46 7. 44 7. 32 8. 56 12. 50 26. 51 17. 74	110 100 100 100 100 100 92 92 110 100 100 100 100 92 92	79 100 108 110 172 386 243 91 100 98 115 168 389 260	87 100 108 109 172 355 224 100 100 98 115 168 356 238	Warp-tyin Male. Loom fixe Male. Weavers: Male.
Spinners, frame: Male	1920	2	9	55. 1	. 566	31, 19				
Female	1922 1907 1913 1914 1916 1918 1920 1922	8 4 13 13 22 22 22 19 21	22 128 452 473 853 844 721 775	52. 7 66. 0 60. 0 60. 0 60. 0 58. 5 54. 2 54. 5	.191 .084 .101 .110 .111 .186 .420 .251	10. 07 5. 54 6. 06 6. 63 6. 65 10. 88 22. 76 13. 68	110 100 100 100 98 90 91	83 100 109 110 184 416 249	91 100 109 110 180 376 226	Fema
Doffers: Male	1916	22	511	60. 0	. 104	8, 54		-		
	1918 1920 1922	22 19 21	503 503 519	56. 6 53. 7 54. 4	.104 .191 .468 .279	8. 54 10. 84 25, 13 15. 18				Trimmers Male Fema
Spooler tenders: Female	1916	22	462	60.0	.110	6.58				a databa
A CHILDREN TO THE PARTY OF THE	1918 1920 1922	22 19 21	475 441 438	59. 6 54. 4 54. 8	.168 .388 .239	10.00 21.11 13,10				1
Creelers or tiers-in: Male.	1920	6	19	55.1	. 436	24. 02				
Female	1920 1922 1920 1922	9 11 13	23 67 51	55. 1 55. 2 55. 2	.302 .359 .252	16. 64 19. 82 13. 91				1

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# WAGES AND HOURS OF LABOR IN COTTON MANUFACTURING. 111

WAGES AND HOURS OF LABOR IN THE COTTON-MANUFACTURING INDUSTRY IN THE SOUTHERN STATES, 1907 TO 1922—Continued.

North Carolina—Continued.

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				Aver-	Aver-	Aver-		x num iverage	
Occupation and sex.	Year.	Num- ber of estab- lish- ments.	Number of employ-	age full- time hours per week.	age earn- ings per hour.	full- time earn- ings per week.	Full- time hours per week.	Earn- ings per hour.	earn- ings
Warper tenders: Male	1916 1918 1920 1922	17 17 13 19	52 53 47 58	60. 0 55. 0 54. 9	\$0.160 .236 .555 .318	\$9, 58 14, 14 30, 53 17, 46			
Female	1916 1918 1920 1922	7 7 8 8	17 17 30 20	60, 0 60, 0 55, 3 55, 4	.130 .196 .419 .291	7. 82 11. 78 23. 17 16. 12			
Beamer tenders:									
Male	1916 1918 1920 1922	7 7 7 9	89 87 85 100	60. 0 60. 1 55. 1 55. 2	.191 .300 .659 .422	11. 47 18. 47 36. 31 23. 29			
Slasher tenders:	1007	3	5	66.0	. 136	8, 98	110	90	99
Male	1907 1913 1914 1916 1918 1920 1922	11 11 20 20 16 19	34 37 57 64 61 66	60. 0 60. 0 60. 0 60. 2 55. 2 55. 2	.151 .149 .179 .245 .561	9. 06 8. 94 10. 77 14. 74 30. 97 19. 87	100 100 100 100 92 92	100 99 119 162 372 238	100 99 119 163 342 219
Drawers-in:					100	- 00			
Female	1916 1918 1920 1922	12 12 11 14	45 36 38 47	60. 0 60. 0 55. 4 55. 4	.128 .200 .465 .297	7. 66 12. 01 25. 76 16. 45			
Warp-tying machine tenders:	1920 1922	8	18 22	55.3 55.2	.568	31. 41 20. 53			
Loom fixers:	1000							0.00	00
Male	1907 1913 1914 1916 1918 1920 1922	13 13 21 21 18 21	32 131 153 259 270 269 296	66. 0 60. 0 60. 0 60. 0 55. 2 55. 2	.170 .169 .189 .286 .658	9, 50 10, 20 10, 14 11, 36 17, 16 36, 32 23, 18	110 100 100 100 100 92 92	85 100 99 111 168 387 247	93 100 99 111 168 356 227
Weavers:		1 .	140	00 0	194	0 10	110	85	93
Male	1907 1913 1914 1916 1918 1920 1922	13 13 13 21 21 18 21	1,050	55. 1 55. 1	.146 .156 .167 .251 .582 .350	8. 18 8. 76 9. 36 10. 09 15. 03 32. 07 19. 27	100 100 100 100 92 92	100 107 114 172 399 240	100 107 115 172 366 220
Female		13 13 21 21 21 17 21	388 492 689 779 492	60. 0 60. 0 59. 6 54. 8	.134 .138 .151 .221 .519	7. 52 8. 04 8. 28 9. 06 13. 21 28. 44 17. 22	100 100 100 99 91	113 165 387	100 103 113 164 354
Trimmers or inspectors:	1								
Trimmers or inspectors:  Male  Female	1920 1922 1913 1914 1916 1918 1920	11	22 26 26 43 54	55. 5 60. 0 60. 0 59. 2	. 265 . 097 . 101 . 100 . 142	14.71 5.82 6.06 6.02 8.42 20.68	100 100 100 2 100 99 99	104 103 146 388	104 103 144 35

WAGES AND HOURS OF LABOR IN THE COTTON-MANUFACTURING INDUSTRY IN THE SOUTHERN STATES, 1907 TO 1922—Continued.

North Carolina-Concluded.

WAGE

- Commercial - control of the contro		Num-	Num-	Aver-	Aver-	Aver- age	Inde	averag	ibers ge—
Occupation and sex.	Year.	ber of estab- lish- ments.	ber of em- ploy- ees.	full- time hours per week.	age earn- ings per hour.	full- time earn- ings per week.	Full- time hours per week.	Earn- ings per hour.	earn.
Other employees:  Male  Female	1914 1916 1918 1920 1922 1914 1916 1918 1920 1922	13 22 22 29 21 19 21 13 22 22 18 21	2, 108 2, 829 2, 735 1, 771 1, 969 607 433 476 357 354	60. 2 60. 5 60. 1 54. 4 55. 7 60. 0 60. 0 58. 1 53. 1 53. 3	\$0.118 .131 .206 .429 .266 .090 .093 .143 .336 .203	\$7.08 7.92 12.42 23.34 14.82 5.42 5.61 8.36 17.84 10.82		•••••	*****
	Sout	th Care	olina.						
Picker tenders:	1920 1922	19 19	115 122	55. 0 55. 0	\$0.373 .199	\$20.52 10.95			******
Card tenders and strippers	1907 1913 1914 1916 1918 1920	5 21 21 19 19	24 109 112 80 53 162	62. 0 60. 0 60. 0 60. 0 55. 0	.115 .116 .117 .126 .188 .419	7. 13 6. 96 7. 02 7. 58 11. 25 23. 05	103 100 100 100 100 92	99 100 101 109 162 361	102 100 101 109 162 331
Card grinders: Male	1922 1920 1922	19 19 19	182 59 51	55. 0 55. 1 55. 0	. 232	12.76 31.63 19.09	92	200	183
Drawing frame tenders:  Male  Female	1907 1913 1914 1916 1918 1920 1922 1920 1922	5 21 21 19 19 19 19 2 2	42 151 155 178 137 179 154 4 5	62. 0 60. 0 60. 0 57. 6 54. 9 54. 5 55. 0	.080 .095 .100 .101 .162 .407 .221 .349 .228	4.96 5.70 6.00 6.09 9.42 22.34 12.04 19.20 12.54	103 100 100 100 96 92 91	84 100 105 106 171 428 233	87 100 105 107 165 392 211
Slubber tenders: Male	1916 1918 1920 1922	19 19 19 19	124 104 118 117	60. 0 60. 0 54. 9 55. 0	.146 .227 .508 .291	8. 78 13. 63 27. 89 16. 01		•••••	
Speeder tenders: Male	1907 1913 1914 1916 1918 1920 1922	5 21 21 19 19 19	96 358 375 484 328 392 414	62. 0 60. 0 60. 0 60. 0 60. 1 54. 9 55. 0	.129 .145 .150 .149 .220 .500 .277	8. 00 8. 70 9. 00 8. 93 13. 21 27. 45 15. 24	103 100 100 100 100 92 92	89 100 103 103 152 345 191	92 100 103 103 152 316 175
Female	1907 1913 1914 1916 1918 1920 1922	19 16 17 17 18 18	30 117 153 159 180 173 168	62. 0 60. 0 60. 0 60. 0 59. 8 54. 8 54. 9	.132 .128 .129 .134 .198 .438 .250	8. 18 7. 68 7. 74 8. 04 11. 84 24. 00 13. 73	103 100 100 100 100 91 92	103 100 101 105 155 342 195	107 100 101 105 154 313 179
Spinners, frame: Male	1907 1913 1914 1916 1918 1920 1922	3 13 8 14 14 13 13	26 100 46 98 84 108 165	62. 0 60. 0 52. 4 60. 0 54. 6 51. 5 52. 8	.098 .110 .109 .092 .150 .313 .179	6. 08 6. 60 5. 54 5. 51 8. 22 16. 12 9. 45	103 100 87 100 91 86 88	89 100 99 84 136 285 163	92 100 84 83 125 244 143

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## WAGES AND HOURS OF LABOR IN COTTON MANUFACTURING. 113

WAGES AND HOURS OF LABOR IN THE COTTON-MANUFACTURING INDUSTRY IN THE SOUTHERN STATES, 1907 TO 1922—Continued

South Carolina-Continued.

IN

				Aver-	Aver-	Average		x num averag	
Occupation and sex.	Year.	Number of establishments.	Number of employ-ees.	age full- time hours per week.	age earn- ings per hour.	full- time earn- ings per week.	Full- time hours per week.	Earn- ings per hour.	earn- ings
Spinners, frame—Concluded. Female.	1907 1913 1914 1916 1918 1920 1922	5 21 21 19 19 19	327 1, 288 1, 260 1, 321 1, 176 1, 004 1, 175	62, 0 60, 0 60, 0 60, 0 56, 5 54, 0 54, 2	\$0.095 .102 .107 .103 .168 .391 .206	\$5. 89 6. 12 6. 42 6. 20 9. 78 21. 11 11. 17	103 100 100 100 94 90 90	93 100 105 101 165 383 202	96 100 105 101 160 345 183
Doffers: Male	1916 1918 1920 1922	19 19 19 19	644 545 613 574	60. 0 58. 1 54. 2 54. 9	.100 .188 .445 .245	6. 02 10. 92 24. 12 13. 45			
Spooler tenders: Female	1916 1918 1920 1922	19 19 19 19	571 549 488 543	60. 0 58. 6 54. 2 54. 4	.094 .149 .357 .188	5. 66 8. 71 19. 35 10. 23			
Creelers or tiers-in: Female	1920 1922	16 16	64 66	55. 0 55. 0	.354	19. 47 11. 77			
Warper tenders: Male Female	1920 1922 1916 1918 1920 1922	6 6 14 14 17 16	8 9 43 41 53 63	55. 0 55. 0 59. 9 60. 0 55. 0 55. 0	.481 .308 .134 .198 .438 .249	26. 46 16. 94 8. 00 11. 91 24. 09 13. 70			
Slasher tenders: Male	1907 1913 1914 1916 1918 1920 1922	5 21 21 18 18 18 18	25 57 77 72 80 84 87	62. 0 60. 0 60. 0 60. 0 60. 0 55. 0	.126 .138 .134 .137 .206 .449 .260	7. 81 8. 28 8. 04 8. 21 12. 35 24. 70 14. 30	103 100 100 100 100 92 92	91 100 97 99 149 325 188	94 100 97 99 149 298 173
Drawers-in: Female	1916 1918 1920 1922	16 16 15 14	97 71 71 80	60. 0 59. 6 54. 6 54. 8	. 135 . 179 . 403 . 219	8, 12 10, 67 22, 00 12, 00			
Warp-tying machine tenders:	1920 1922	17 17	30 29	55. 0 55. 3	. 550	30, 25 19, 30			
Loom fixers: Male.	1907 1913 1914 1916 1918 1920 1922	5 21 21 19 18 18 18	95 378 400 397 338 380 376	62. 0 60. 0 60. 4 60. 7 61. 1 55. 9 55. 8	.176 .176 .194 .275	10. 42 10. 56 10. 63 11. 80 16. 79 33. 32 20. 09	103 100 101 101 102 93 93	95 100 100 110 156 339 205	99 100 101 112 159 316 190
Weavers: Male	1907 1913 1914 1916 1918 1920 1922	5 21 20 18 18 18	1, 425 999 917	61. 5 60. 0 60. 0 60. 0 59. 9 55. 0	. 143 . 147 . 154 . 232 . 532	8, 12 8, 58 8, 82 9, 21 13, 89 29, 26 15, 72	100 100 100 100 92	100 103 108 162 372	95 100 103 107 162 341 183
Female	1907 1913 1914 1916 1918 1920 1922	5 21 20 18 18 18 18	172 719 881 638 680 500	62. 0 60. 0 60. 0 59. 4 54. 3	.122 .130 .130 .140 .200 .468	7. 56 7. 80 7. 80 8. 40 11. 86 25, 41	103 100 100 100 99 91	94 100 100 108 154 360	97 100 100 108 152 326

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WAGES AND HOURS OF LABOR FOR THE COTTON-MANUFACTURING INDUSTRY IN THE SOUTHERN STATES, 1907 TO 1922—Continued.

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#### South Carolina-Concluded.

Occupation and sex.	-	Num-	Num-	Aver-	Aver-	Aver-	Inde	averag	bers e—
	Year.	ber of estab- lish- ments.	ber of em- ploy- ees.	full- time hours per week.	age earn- ings per hour.	full- time earn- ings per week.	Full- time hours per week.	Earn- ings per hour.	Full time earn ings per week
Trimmers or inspectors:									
Female	1907	5	40		\$0.073	\$4, 53	103	87	9
MAN THE RESIDENCE AND AND ADDRESS OF THE PARTY OF THE PAR	1913	20	152	60. 0	.084	5.04	100	100	10
NOT AND DESCRIPTION OF THE PARTY OF THE PART	1914	19	149	60.0	. 086	5. 18	100	102	10
the pass of the pa	1916 1918	16	134	60.0	. 086	5. 18	100	102	10
	1918	14	148	58. 7 54. 8	.132	7. 62 17. 04	98 91	157	13
are the total to the later to the	1922	13	170	54. 7	.176	9, 63	91	370 210	3
Other employees:	1000	10	710	02.1	.110	9. 03	91	210	1
Male.	1914	19	4,985	60.3	.114	6. 86			
2000	1916	19	3, 827	60.5	. 125	7.53		•••••	
10 St 141 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1918	19	2,939	60, 2	.184	11.10			
The state of the s	1920	19	2,300	54. 2	.380	20, 60			
Company of the Compan	1922	19	2,422	55. 4	. 203	11. 25			
Female	1914	19	1,533	60.0	. 089	5.37			
100. 0.00	1916	19	443	60.0	.080	4.82			
manufacture   15 th   1951 -   2-72.	1918	18	283	59. 2	. 145	8.60			
	1920	19	637	53. 1	. 278	14.76			
	1920 1922	19	637 515	53. 1 52. 6	.278	14. 76 7. 84		• • • •	• •

#### Virginia.

Picker tenders:	JJ. 375	ST .	The state of						
Male	1920	2	18	55, 2	\$0.377	\$20, 81			
	1922	3	41	55.2	. 274	15. 12			
Card tenders and strippers:		- 1							
Male	1920	2	27	55. 2	.379	20.92			
Card grinders:	1922	3	45	55. 1	.312	17. 19			
Card grinders:		116	13151			00 00			
Male	1920	2	5	55. 4	. 540	29.92			
12 E E E E E E E E E E E E E E E E E E E	1922	3	16	55. 2	. 362	19. 98			
Drawing frame tenders:			1000						
Male	1920	2	14	55. 4	.419	23, 21			
	1922	3	40	55. 2	.314	17.33			
Slubber tenders:			A DARKE						
Male	1920	2	11	55. 5	. 490	27. 20	100000		
00 /2   100 - 0 /4	1922	3	25	55. 2	.389	21, 47			
Speeder tenders: Male	7.08	19	-		·				
Male	1920	2	46	55, 4	. 494	27.37			
	1922	3	132	55, 2	.391	21.58			
Female	1920	2	20	55. 7	. 441	24.56			
	1922	3	27	55.3	. 328	18.14		*****	
Spinners, frame:	00		1000	No.					
Mate	1920	1	5	56. 0	. 360	20, 16			
00 - 00 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 10	1922	1	25	54.6	. 362	19. 77			
Female	1920	2 3	131	54. 8	.318	17. 43			
ENGLISHED STORY OF THE PARTY OF	1922	3	243	55, 2	.318	17.55			
Doffers: Male	0000				100				
Male	1920	2 3	79	54.3	. 382	20.74			
	1922	3	139	54.3	.311	16. 89			
Spooler tenders: Female	100 E	-	1001			1		1	
Female	1920	2 3	65	55. 4	.307	17.01			
WE AND THE PROPERTY OF THE PARTY OF THE PART	1922	3	129	55. 1	. 260	14.33			
Creelers or tiers-in:	- CORUM		110						
Creelers or tiers-in: Female.	1920	2	8	54. 5	. 282	15. 37			
ACT TO THE REAL PROPERTY OF THE PARTY OF THE	1922	3	10	55. 5	. 223	12, 38			
Warper tenders:	006.00		Mail						
Male	1920	1	2	55. 0	.382	21, 01			
AL - 120 C. J. M. C. M. C. M. C. A. C. M.	1922	1	1	55, 0	. 280	15, 40			
Female	1920	2	6	55. 8	.410	22, 88			
07 803 901 110 8 4 201 0 70	1922	2	26	55. 1	. 427	23, 53			
lasher tenders:	Del	8	8392	Ph					
Male	1920	2	12	55, 4	. 455	25, 21			
81 000 00 PLAT 000 16 16	1922	3	25	55. 7	.373	20, 78			

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WAGES AND HOURS OF LABOR FOR THE COTTON-MANUFACTURING INDUSTRY IN THE SOUTHERN STATES, 1907 TO 1922—Concluded.

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#### Virginia-Concluded.

Turritory both wages		NT	em- ploy-	Aver-	age earn- ings per	Aver-		ex num averag	
Occupation and sex.	Year.	ber of		full- time hours per week.		full- time earn- ings per week.	Full- time hours per week.	Earn-	earn- ings
Drawers-in:									
Female	1920 1922	2 2	6 30	55.7 55.3	\$0.368 .328	\$20.50 18.14			
Warp-tying machine tenders:	10000								
Male	1920 1922	2 3	6	55. 5 55. 3	.544	30. 19 21, 46		•••••	
Loom fixers:									
Male	1920 1922	3	32 94	55.4 55.2	.598	33, 13 26, 22			
Weavers:									
Male	$\frac{1920}{1922}$	2 3 2 3	101 383	55. 4 55. 2	.511	28.31 22.25		•••••	
Female	1920 1922	2 3	55 155	55. 4 55. 2	.447	24.76 20.30		•••••	
Trimmers or inspectors:								-	-
Female	1920 1922	2 3	24 27	53.4 55.3	.246	13, 14 15, 04		•••••	
Other employees:						1000			
Male	1920 1922	3 2	306 680	54.6 56.1	.328	17. 91 16. 77			
Female	1920 1922	2 3	123 287	55, 2 55, 1	.233	12.86 12.12		•••••	

# Miners' Wages in Alaska.

THE Territorial mine inspector of Alaska in his report for 1921 states that labor conditions in the mining industry in Alaska "were very satisfactory throughout the year." There was a plentiful supply of workers and no troubles of any kind were reported. Some reductions in wages were made in 1921. According to the report, the 1921 wage scales in the more important mines in the coastal districts were as follows:

For an 8-hour shift:		
Machine drill men	\$4.00 to	\$5.50
Machine helpers		
Muckers		
Timbermen	4.50 to	6.00
Timber helpers	4.00 to	4.50
Trackmen	4.00 to	4.90
Pipemen	4.00 to	5.50
Carpenters		7.00
Carpenters' helpers	4.00 to	5.50
Blacksmiths	5.00 to	7.00
Blacksmiths' helpers		
Hoisting engineers	4.00 to	5.75
Cagers	4.00 to	4.90
Laborers		5.00

From these wages deductions ranging from \$1 to \$1.50 per day were made for room and board and from \$1.50 to \$2.40 per month for hospital fees and medical attendance. In the Matanuska field in 1921 coal miners' wages were \$8.60 per day of 8 hours. Unskilled

laborers were paid \$7.90 per day. Both the working conditions and living accommodations were reported excellent.

At nearly all of the larger camps workers with families may rent

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cottages at a reasonable rate from the operators.

The cost of living in Alaska is not very much higher than in Seattle, and rents are lower. In the interior of the Territory both wages and living conditions vary so much that it is not easy to make general statements in this connection. In the larger camps, for example, Iditarod and Fairbanks, placer miners' wages range from \$5 to \$6 per day, exclusive of board furnished by the operators, the estimated value of which is from \$2 to \$3 per day. In the very remote districts mine workers receive from \$7 to \$10 per day and their board.

The amount of wages paid in the mining industry in Alaska in 1921 is estimated as approximately \$5,260,000, distributed as follows:

Placer mines (estimated on the basis of 2,000 men employed for an average of 150 days during the year)	\$1,500,000 1,494,482 185,228 1,154,876 875,000
THE RESERVE THE RESERVE THE PARTY OF THE PAR	5, 260, 128

About 4,000 men were employed in the various branches of mining in 1921.

Agricultural Wages and Wage Earners in Norway and Sweden.

By MRS. V. B. TURNER.

# Norway.

IN Norway, as in the other Scandinavian countries, agriculture is the predominant occupation. According to the census of 1910<sup>1</sup> of 923,047 occupied persons, 288,322, or nearly one-third of the number employed, were engaged in some form of agriculture. Broadly speaking, they were divided as follows: Independent farmers, 144,190; salaried employees, 3,864; laborers, 140,268. From 1890 to 1910 there was a conspicuous tendency towards an increase in the number of independent farmers and a corresponding decrease in the number of laborers. The increase in the number of landowners was probably due to the greater ease with which ownership of small holdings was secured, while the decrease in the number of wage earners may also be attributed to the encouragement given these workers through propaganda and legislation to acquire small holdings of their own, to migration to the cities, and to trans-Atlantic emigration. But the war practically did away with trans-Atlantic emigration, caused a demand for the most intensive cultivation of the land, and rendered living in towns almost unbearable. While there are no available statistics at present to support such a conclusion, it is believed, because of what is known of the increase in the whole rural population in excess of the increase by birth rate for the

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<sup>&</sup>lt;sup>1</sup> International Review of Agricultural Economies, March, 1920, p. 195.

year 1917, that there must have been an extraordinary change for the better in this respect, and that the rural exodus which had for some years constituted as serious a problem in Norway as elsewhere had, for a time at least, to some extent been checked.

#### Classes of Workers.

The wage earners in Norwegian agriculture, as distinct from the independent farmers, may be broadly grouped as (1) farm servants; (2) day laborers, or journeymen; (3) cotters (husmaend); (4) pieceworkers. In these groups of workers are included foremen (gaardeskarer) and laborers' sons and daughters who live at home and work on the land. Wage statistics are usually confined to the first three classes.

The following extract from a recent report made by the Norwegian Government to the International Labor Office 2 covers in a concise form the duties and other distinguishing characteristics of these

classes of agricultural laborers and is therefore quoted in full.

1. "Servants" is the name applied to hands who are engaged for a longer period of time, formerly mostly for a half or a whole year, now often by the month, but always with the right to receive notice a certain time in advance in case of discharge. As a rule the position of farm servant is also characterized by the fact that the servants have board and lodging on the farm and are bound to perform all work that may arise within limits determined by custom or by agreement. The male servant (farm man), as a rule, has to do with all the outdoor work, including also the care of horses, even when this work occurs outside of the proper working time, as it generally must in the

mornings and evenings.

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The female servants may be divided into two groups—the house servants and the milkmaids or outdoor female servants. The house servant has to do all work occuring in the house, sometimes also lighter outdoor tasks in the harvest and sowing season or at other busy times. The outdoor servant (milkmaid) attends to the live stock on the farm, with the exception of the horses. In most cases, however, the farms are so small that only one girl is employed as house servant and milkmaid combined. On the other hand, if the number of live stock is comparatively large, the indoor servant helps the outdoor servant with some of the work in the byres, especially with the milking. Or else there is a cattleman (the so-called "sveitser"), sometimes unmarried and getting board and lodging on the farm, sometimes married, in which case he generally feeds himself, but has a free dwelling for himself and family. The wife then helps her husband, if necessary, in the care of the live stock.

Owing to the difficulties in obtaining unmarried male servants, but perhaps especially in order to secure more settled conditions of labor, the farmers have of late begun to engage married men on terms which may be regarded as almost the same as for resident servants. These men are in most cases hired on the terms that they supply their own food, but are given a free family dwelling house and sometimes a piece of ground for potatoes and vegetables, as well as free fuel from the wood attached to

the farm.

The resident servants constitute the great majority of the actual hired labor on the farms. They form together with the cotters (husmaend) the permanent working staff of the farm. The other hands are taken on mostly to supplement this permanent nucleus under special circumstances or in exceptionally busy times (for instance,

in the sowing and harvesting seasons).

The number of resident servants—both male and female—amounts to about 75,000.

2. Day laborers: The day laborers proper are hired for a short time—with payment by the hour or by the day—to supplement the permanent workers on the farm. Sometimes they have board and lodging on the farm, sometimes only board, and sometimes neither the one nor the other. They consist partly of itinerant casual workers, partly of the small holders of the district who can spare some time for work outside their own farms.

3. Pieceworkers: These are in reality the same kind of workers as the day laborers, but, owing to the nature of the work they perform, their payment is calulated according

<sup>&</sup>lt;sup>2</sup>International Labor Office. Technical survey of agricultural questions. Geneva, 1921. pp. 25-27.

to the amount of work done, instead of by a unit of time. Of farm work proper it is mainly ditch making and sometimes the breaking up of new land that is given out as piecework. The work in the forests on the other hand is for the most part performed as piecework. To a great extent this work is done by the small holders living in the district, who thereby find a profitable employment for the winter period, both for themselves and for their horse, if they have one.

4. Cotters (husmaend): This is the name given to agricultural workmen who are attached to the farm by having the right of use of a holding belonging to the farm

with the obligation of performing more or less work on the farm.

The cotters (husmaend), it may be added, constitute a special class in Norwegian agriculture, and their relation to employing farmers differs somewhat in different sections of the country.

In the eastern part of the country the husmand as a rule receives his lot without liability to pay a due for entry on it; its buildings belong to the head farm, but he is bound to repair them; he is obliged to give his labor constantly except on one or two days a week; the annual rent for his lot is a cash rent and is usually deducted from the wages due to him for his work. Besides his wages, which are fixed by contract, the laborer has the right to pasture his cows and sheep on the head farm, and generally has turbary and the right to take firewood, the use of the landowner's horses for the plowing of his land, the right to receive seed and seed potatoes at reduced rates, etc. Contracts are now almost always made for a year, with a reciprocal right of terminating them, but the laborer usually stays a long time on his lot.

In the western districts the husmand conforms to a slightly different type.

times he has to pay a small due for entry on his lot; he generally owns the buildings which he buys from his predecessor or inherits from his father or puts up himself, and he is responsible for their repair. He sometimes has the right of pasturage on the head farm, but seldom the right to firewood, to the use of draft animals, etc. Contracts are normally for life. The annual rent is partly in cash and partly in days of work. The work rendered as a due is concentrated in a determined number of days during the sowing and harvest and the mowing seasons; and the husmand has no further obligation to the head farm but is free to find work where he chooses.3

Statistics, however, show that this class of farm workers, which corresponds to some extent, at least, to the allotment farmers in Denmark and the "bound tenants" in Wales is gradually disappearing, the number in Norway having declined from 67,396 in 1855 to 19,811 in 1910.

#### Wages of Farm Workers.

Whatever may have been and are the delinquencies of other countries in the matter of collecting agricultural wage statistics, Norway and Sweden, at least, have made commendable efforts to give agricultural wage data the same attention as that shown wage statistics for other industries. In the case of Norway this is manifest in the fact that from 1850 to 1915 wage data were collected, by fiveyear periods, for various Norwegian industries, including agriculture.

In the tables which follow the average cash daily wages of cotters (husmaend) and of day laborers, as well as the average cash yearly wages of servants and the percentage increases for each class are given, distinctions being made as to the season, class of work, sex of workers, and their condition as regards board and lodging. Table 1 presents statistics collected by the Central Office of Statistics (Statistiske Centralbyrå) covering five-year periods from 1885 to 1915, as follows:

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TABI

Cotters

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<sup>3</sup> International Review of Agricultural Economics, Rome, March, 1920, p. 201.

TABLE 1.-AVERAGE CASH DAILY WAGES OF COTTERS (HUSMAEND) AND DAY LABORERS, 1885 TO 1915, BY SEX AND SEASON.

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Norway. Statistiske Centralbyrå. Statistisk årbok, 1921. Christiania, 1922, p. 177; International Review of Agricultural Economics, Rome, March, 1920, p. 203. Krone at par = 26.8 cents.]

Class of worker and season.	1885	1890	1895	1900	1905	1910	1915	Per cent of in- crease, 1915 over 1885.
Cotters:								
With board—	Kroner.			Kroner.				000
Summer Winter	. 41	0.71	0. 87	1.03	1.06	1.58	1.90	202
			.57	.71	. 73	1. 20	1.49	263
Average Without board—	. 52	. 58		. 87	. 90	1. 39	1.70	227
Summer	1.18	1.34	1.46	1.64	1.67	2, 23	2, 80	137
Winter	. 93	1.00	1.45	1.27	1.33	1.87	2, 33	151
Average	1.05	1.17	1.31	1.45	1.50	2.05	2.57	145
Male day laborers: With board—								
Summer	1.22	1. 26	1.38	1.63	1.73	2.08	2, 82	131
Winter	.76	. 82	. 90	1.11	1.19	1.53	2, 26	197
Average	. 99	1.04	1. 14	1. 37	1.46	1.81	2. 54	157
Summer	1.94	1.99	2, 10	2,37	2, 50	2, 94	3, 85	98
Winter	1.42	1.47	1.58	1, 82	1.92	2, 35	3, 25	129
Average	1.68	1.73	1.84	2. 10	2. 21	2.65	3.55	111
Female day laborers: With board—								
Summer	. 62	. 66	.72	.84	. 89	1.06	1.42	129
Winter	.41	.44	.49	.59	. 64	. 81	1.11	171
A verage	. 52	. 55	.61	.72	.77	. 94	1. 27	144
Without board-	.02	00	.01	.12		. 372	1. 21	1.24
Summer	1, 12	1.16	1. 23	1.36	1,42	1,66	2.17	94
Winter	. 84	. 89	. 93	1.02	1.08	1. 29	1.78	112
Average	. 98	1.02	1.08	1. 19	1. 25	1. 48	1, 98	102

Data submitted in Table 1 indicate that during the 30 years from 1885 to 1915, the rise in the wages of farm workers was both continuous and pronounced, the increases in the case of the cotters' (husmaend's) wages being greatest, while the increases in the wages of male workers were proportionately greater than those of female workers. The low rate of wages paid the cotters' (husmaend) generally is explained by the fact that these wages are only a part of their yearly incomes, the major portion of which, in a large number of instances, is derived from the profits of their holdings, from fishing,

forestry, or possibly some domestic industry.

No five years' abstract has been made since 1915, but in that year the (Royal) Society for Norway's Welfare (Selskapet for Norges Vel) undertook a study of agricultural wage conditions which covered each year up to 1920, and the Central Office of Statistics (Statistiske Centralbyrå) has also conducted an inquiry into the wages of all labor, whereby it is able to publish yearly averages for wages on Norwegian farms. The average amounts of wages for 1915 arrived at by these two organizations differ somewhat, due to the fact that the data submitted by the Society for Norway's Welfare not only take into account the conditions included in the statistics of the Central Office of Statistics, viz, seasons, board and lodging, and sex of workers, but consider separately, in the case of the summer half year, the wages for the various kinds of work. The figures published by this society are nevertheless considered authoritative by

[599]

the Central Office of Statistics, and, therefore, though exact comparisons can not be made, the changes in the wages of agricultural labor can thus be traced from 1850 to 1920. The figures in Table 2 show average wages of day laborers from 1915 to 1920, by sex, season, class of work, and percentage of increase in 1920 over 1915.

TABLE 2.—AVERAGE CASH DAILY WAGES OF DAY LABORERS, BY SEX OF WORKERS, SEASON, AND CLASS OF WORK, 1915 TO 1920.

[Norway. Statistiske Centralbyrå. Statistisk årbok for 1921. Christiania, 1922. p. 176; Selskap for Norges Vel. Arbeidslønnen i jordbruket, 1915-16 to 1919-20. Krone at par=26.8 cents.]

Mary Mary Mary Mary Mary Mary Mary Mary	W	ages wi	ith boa	rd.	Percent of in-	W	ages wit	thout bo	ard.	Percent of in-
Sex of workers, season, and class of work.	1915	1918	1919	1920	crease, 1920	1915	1918	1919	1920	crease, 1920 over 1915
Men.					9 10 1					
Summer half year:	Kr.	Kr.	Kr.	Kr.		Kr.	Kr.	Kr.	Kr.	
Spring work	2. 51	6.64	7.88	8.71	247	3.64	9.66	11. 55	12, 50	- 47
Hay harvest	2.95	6.73	9.00	9.88	235 255	4. 00 3. 64	10. 27 9. 83	12. 42 11. 41	13. 64 12. 71	2
Other work	2. 37	6. 13	7.32	8, 11	242	3. 32	9. 26	10.96	11. 95	
Winter half year	1.81	5.31	6.14	6. 84	278	3.08	8. 26	9.61	10. 25	2
Women.		-		[4]	-1		-			
Summer half year:					-			1 3		
Spring work	1.30	3. 32	4.17	4, 60	254	2.12	5, 43	6, 53	7.09	2
Hay harvest	1. 53	3.78	4.68	5. 13	235	2.35	5. 92	7.06	7.67	1 1
Grain harvest	1.42	3.86	4. 43	4. 93	247	2. 22	6.02	6. 81	7.41	
Other work	1.18	3. 09	3.72	4.14	251	2.00	5. 20	6. 10	6.76	
Winter half year	1.02	2.63	3. 17	3. 50	243	1.84	4, 84	5. 41	5. 81	

According to these data average wages of day laborers, 1915 to 1920, continued to increase, the greatest annual advances, though not shown in detail in the table, being made in the years between 1915 and 1918.

Domestic servants are, as stated before, young unmarried men and women who board and lodge with their employers' families, do both indoor and outdoor work, and are hired by the year or half year. Increases in their wages, especially those of the young men, average generally higher than increases affecting other groups. Statistics given in Table 3 indicate changes in the wages of this class of farm workers, 1915 to 1920, by season, sex of workers, and per cent of increase from 1915 to 1920.

TABLE 3.—HALF-YEARLY CASH WAGES OF DOMESTIC SERVANTS, BY SEASON AND SEX OF WORKERS, 1915 TO 1920.

Norway. Statistiske Centralbyra. Statistisk arbok for 1921. Christiania, 1922, p. 176. Krone at par=26.8 cents.]

bay training the bu	O A	Sum	imer.	non'm	Per	70,00	Win	nter.	Gais-	Per
Sex of workers.	1915	1918	1919	1920	of increase, 1920 over 1915.	1915	1918	1919	1920	of increase, 1920 over 1915.
Men Women	Kroner. 242 120	Kroner. 583 263	Kroner. 730 348	Kroner. 807 , 400	233 233	Kroner. 159 91	Kroner. 431 214	Kroner. 529 288	Kroner. 598 328	276 260

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4 La 5 No Wage Increases and Cost of Living.

In July, 1920, cost of living in Norway, including all items, had increased 202 per cent over the 1914 level, retail food prices alone being 219 per cent above the rates prevailing in 1914.<sup>4</sup> By December, 1920, the cost-of-living figure had risen 235 per cent <sup>5</sup> above that for 1914. From a comparison of the wage increases, as shown in the preceding tables, with the rise in cost of living it is apparent that the advances in wage rates a little more than counterbalanced the rising cost of the family budget.

Discussing the possible effect of this rather remarkable increase in the wages of farm labor upon the economic position of the workers the International Review of Agricultural Economics for March,

1920 (p. 207) says:

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The position of agricultural laborers, which was usually economically inferior, before the war, to that of urban workers, seems to be substantially unchanged, in spite of the apparently very high pay. It therefore seems not improbable that in the near future the competition for labor of industry and of agriculture will be resumed in Norway, and there are some who already prophesy that the State will be obliged to intervene in order to prevent a decline, due to a deficient labor supply, of the cultivation which the war has intensified.

#### Hours of Labor.

In general a 10-hour workday prevails during the summer half year; an 8-hour day during the winter half year, between 6 or 7 a.m. and 6 or 8 p.m., according to the season. The work period is broken by two or three hours of rest, during which four or five meals are provided.

#### Sweden.

FARMING operations, affecting, as they do, the class, quality, and remuneration of labor, vary in every country—and even in the particular districts of every country—according to diversities in physical features, to dissimilarities of climate, and to possibilities for the distribution and sale of products; and while these variations in agriculture are as distinct in Sweden as in the other Scandinavian countries, for example, a marked similarity exists in the division of the land area. Small holdings in Sweden, as in Denmark and Norway, form a large majority of the agricultural units, the large holdings comprising only about one-fifth of the cultivated area of the country. The distribution of cultivated agricultural property is shown in Table 4.

Labor Gazette, London, June, 1922, p. 276.
 Norway. Departementet for Sociale Saker. Sociale Meddelelser, No. 1, 1922, p. 57.

Table 4.—DISTRIBUTION OF CULTIVATED LAND IN SWEDEN, BY SIZE OF HOLD. INGS, IN 1919.

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[Sweden. Delegation for International Collaboration in Social Politics. The Swedish agriculturallaborer, Stockholm, 1921. p. 12.]

[Hectare=2.471 acres.]

Area of individual holding.	Agriculta in	ural hold- gs.	Total area of holdings.		
reduced and Syant children to bey ugare	Number.	Per cent of total.	Hectares.	Per cent of total.	
Under 2 hectares	120,788 208,804 91,235 7,931	28. 2 48. 7 21. 3 1. 8	139,137 1,081,407 1,753,976 807,304	3, 28, 46, 21,	
Total	428,758	100.0	3,781,824	100.	

Parcels of land in the first group (under 2 hectares) are too small to furnish the entire living of their occupants, who must, therefore, supplement their meager annual incomes from the land by a principal occupation such as fishing, mining, or market gardening, or by home industries like weaving, knitting, and woodworking. The increase in factory-made products, however, is gradually limiting the home industries. Cultivated areas of from 2 to 10 hectares (4.94 to 24.71 acres) are known as small peasant farms (småbondehemman) when derived under the old system of tenure; as small holdings (småbruk) if granted under modern agrarian legislation. small farms as a rule provide their cultivators an independent living. On the medium-sized peasant farms (storbondehemman) of from 10 to 50 hectares (24.7 to 123.6 acres) of arable land the farmers employ some labor, while on the manors or large farms (herrgårdar) of over 50 hectares (123.6 acres) the work is all performed by hired labor. Of the 428,758 agricultural holdings in 1919, only 23.2 per cent were held by tenants, whose holdings comprised 25.6 per cent of the cultivated land in the kingdom, a large majority of the holdings obviously being occupied and cultivated by their owners.

#### Classes of Agricultural Laborers in Sweden.

In 1870 nearly 72 per cent of the Swedish people depended upon agriculture and its supplementary occupations for their livelihood. By 1910, the latest period for which occupational data in agriculture are available, this proportion had shrunk to 48 per cent. The total agricultural population of Sweden in 1910 was 2,233,311 persons, 797,731 of whom were children under 15 years of age "and certain other members of the family," and 379,111 of whom were "wives without any occupation." Subtracting these two classes—though, in view of the work done by women, especially on the small farms, the description of the wives seems something of a misnomer—the actual working agricultural population was 1,056,469 persons, of which number 746,791, or 71 per cent, were men and 309,678, or 29 per cent, were women.

Sweden. Delegation for International Collaboration in Social Politics. The Swedish agricultural laborer. Stockholm, 1921.

According to the census of 1910 wage earners on Swedish farms were divided occupationally into more or less inclusive groups as shown in Table 5.

TABLE 5.-WAGE EARNERS IN SWEDISH AGRICULTURE IN 1910, BY SEX AND OCCUPATION.

Occupation.	Men.	Women.	Total.
Agricultural apprentices. Bailiffs and foremen. Stewards, inspectors, etc.	887 6,120 3,092	8	887 6, 120 3, 100
Total	10,099	8	10, 107
Agricultural laborers: With land— Cotters and small holders. Members of their families. Crofters. Members of their families.	22,658 6,605 59,650 28,327	10, 501 8, 705 4, 135 26, 443	33, 159 15, 310 63, 785 54, 770
Total	117, 240	49,784	167,024
Without land— Cattlemen, cowmen. Married farm servants Members of their families Unmarried farm servants. Other agricultural workers. Members of their families	4, 961 25, 423 3, 930 38, 289 94, 344 11, 107	2,211 42 4,008 51,193 13,022 12,226	7, 172 25, 465 7, 938 89, 482 107, 366 23, 333
Total	178,054	82,702	260,756
Total agricultural laborers	295, 294	132, 486	427, 780
Dairymen and dairymaids 1	1, 258 9, 480	2, 532 328	3,790 9,808
Total	10,738	2,860	13, 598
Grand total	316, 131	135, 354	451, 485

<sup>&</sup>lt;sup>1</sup>Includes the workers in cooperative dairies.
<sup>2</sup>Includes independent market gardeners.

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Criticism is made by the authors of The Swedish Agricultural Laborer of the division shown in the occupational census on the ground that owing to the inclusive character of some of the classes and the exclusive character of others, the data submitted do not give sufficiently comprehensive information regarding the occupational divisions of the agricultural population. They estimate the number of agricultural laborers in 1910 as 400,000, about two-thirds of whom were men and one-third women.

The "statare," of whom in 1910 there were 25,423, are a group of special workmen, usually married, representing the typical agricultural laborer on large farms. They are hired by the year, receive allowances in part payment of wages, and have their own homes. Some of the crofters own their holdings; others give a contracted number of days work as rent for the use of the land they till. The landless day workers constituted in 1910 the largest group (107,366) of agricultural wage earners and probably do still. At the present time their working conditions are to a large extent determined in much the same way as those of employees in industry.

As is customary in a country where small farms predominate, social distinctions between the classes of farm labor exist only to a limited extent. Since a small farmer must often supplement the income from

his farm by working for others, he may be at once an employer and an employee. Sons of small farmers work on neighboring farms with the sons of their employer. It is only on the large farms that distinctions between skilled and unskilled, between professional and other work, are sharply drawn.

#### Woman and Child Labor.7

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There has been no complete inquiry into the extent of female and child labor on Swedish farms since 1915, when a survey of the working and living conditions of agricultural laborers on 238 typical farms was made. The study covered 11,970 workers, 6,181 of whom were permanent workers; 5,789 temporary workers. Of the permanent workers 8.6 per cent were women; 6.0 per cent minors under 18 years of age. In the case of the temporary workers, however, the percentages of women and children were much greater, being 42.8 per cent and 31.6 per cent, respectively, three-fifths of the children being under 15 years of age.

The work performed by women and children in agriculture, especially on the small and medium-sized farms which (as shown in Table 4) predominate in Sweden, is important. Among the kinds of work which they do, milking holds first place, though during recent years the introduction of milking machines has caused a decline in the demand for woman labor of this character. Women are also engaged in harvest work and in the thinning and weeding of root crops of various kinds. The care of animals is largely taken by women, expecially on the smaller farms. Children work in the sugar beet and turnip fields during the summer months and also keep watch over grazing flocks. The extent of grazing work on the part of children has, however, been somewhat limited of late by the growing practice of feeding animals in the barns or of keeping them in specially fenced pastures. The wages paid women for agricultural labor are shown in Tables 6, 7, and 8.

#### Organization of Employees and Employers in Swedish Agriculture.8

Employees.—Organization of the Swedish agricultural laborers which began about the close of the last century progressed rapidly until 1908 when the Swedish Agricultural Laborers' Federation was formed. Soon after a decline set in and it was not until 10 years later that the old federation regained its original standing. In 1921 its district branches in the counties of southern and central Sweden numbered 300, with 22,000 members.

The newly awakened interest in the organization of farm labor manifested itself also in the formation during 1918 of an independent group known as the Uppland Agricultural Laborers' Federation, with a reported membership in 1921 of 5,000. In 1919 the Forest and Agricultural Laborers' Federation of central Sweden, in which the land workers and forest workers of the industrial midlands (Bergslagen) are organized, was established, its membership in 1921 numbering about 1,000 persons. The total number of agricultural trade-unionists

 <sup>7</sup> Sweden. Delegation for International Collaboration in Social Politics. The Swedish agricultural laborer. Stockholm, 1921, pp. 67-74.
 8 Sweden. Delegation for International Collaboration in Social Politics. The Swedish agricultural laborer. Stockholm, 1921, pp. 36, 37.

in Sweden in 1921 was then apparently about 28,000, or a little less than 10 per cent of the total number of male agricultural laborers.

Employers.—The organization of Swedish agricultural employers proceeded simultaneously with that of their employees. The movement developed first in county associations, which in 1908 combined to form the Delegates of the Swedish Agricultural Employers' Associations. In 1920 a closer national combination was entered into, called the Central Association of Swedish Agricultural Employers.

#### Cash Wages and Earnings.

Official wage statistics for Swedish agricultural labor are secured from three sources, namely, employers' and employees' associations, and the chairman of parish councils. By this system the statistical office is able to secure locally differentiated figures for the wages in cash and in kind for the most important groups of workers, and to compute the averages for the kingdom as a whole. The wage data given in the tables which follow are averages for the whole country and are based upon figures furnished by the chairmen of the parish councils.

Payments in Kind.—Payments in kind are still made to Swedish farm labor to a great extent. In addition to board and lodging the unmarried workers, in some parts of Sweden at least, receive clothing and other things, of a "fairly considerable value." The "statare" (usually married) found on the larger farms are provided, in addition to their cash wages, with allowances of milk, corn, potatoes, etc., a rent-free cottage, which in southern Sweden consists of two rooms and a kitchen, and in the rest of the country, of a single-room tenement (average yearly rental, in 1919, 133 kronor (\$35.64, par) and free fuel estimated (1919) at 147 kronor (\$39.40, par).

Earnings.—In Table 6 the average yearly earnings of these two classes of farm laborers, including in addition to their cash wages the value of board and lodging in the case of the unmarried workers, and of allowances in that of the married men, are given for 1911, and

from 1914 to 1920.

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tural tural Table 6.—AVERAGE YEARLY EARNINGS OF SWEDISH AGRICULTURAL LABORERS, 1911 AND 1914 TO 1920, BY CLASS AND SEX OF WORKER.

[Sweden. Statistiska Centralbyrån. Statistisk Årsbok, 1922. Stockholm, 1922, p. 214. Krona at par = 26.8 cents.]

Tear.	Cash	Fe-males.		d and ging.  Fe-males.	To Males.	Fe-males.	Cash	Wages in kind.	Total.
)	Males.		Males.		Males.			Wages in kind.	Total.
A STATE OF THE STA			1						
1911 K	Kronor.	Kronor.	Kronor.	Kronor.	Kronor.	Kronor.	Kronor.	Kronor.	
1914	332	184 202	337 370	272 299	648 702	456 501	314 334	373 477	687 811
915	343	212	412	335	755	547	346	537	883
916	398	241	508	414	906	655	390	597	987
917	489	286	657	532	1,146	818	457	799	1,256
918	689	376	940	755	1,629	1, 131	646	1,118	1,764
1919	884 1,075	502 661	1,019	818 834	1,903 2,105	1,320 1,495	826 1,047	1,262 1,305	2,088 2,352

<sup>&</sup>lt;sup>1</sup> Includes horsemen and other men hired by the year.

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It will be seen from this table that the rise in the total yearly earnings of these classes of farm workers, 1914 to 1920, was for male servants, 200 per cent; female servants, 198 per cent, and stature, 190 per cent. Cash wages of male servants increased 224 per cent; of female

servants, 227 per cent; and of stature, 213 per cent.

Cash wages.—The day laborers on Swedish farms may be either permanent or temporary workers. In the iron-working properties in Bergslagen, for instance, day workers having small holdings contract to work for their employers a certain length of time and are known as permanent day workers. The majority of the day workers, however, are laborers who work by the day or hour, and make neither oral nor written agreements. The cash wages of these two classes of day laborers, those boarded by the employer and those boarding themselves, with reference also to season and to sex, for 1911 and from 1914 to 1920 are shown in Table 7.

TABLE 7.—AVERAGE DAILY CASH WAGES OF SWEDISH AGRICULTURAL DAY LABORERS, 1911 AND 1914 TO 1920, BY SEX AND SEASON.

[Sweden. Statistiska Centralbyran. Statistisk Årsbok, 1922. Stockholm, 1922, p. 214. Krona at par-26.8 cents.]

#### Permanent day laborers.

	Labon	ers board	ling then	Laborers boarded by employer.					
Year.	Sun	ımer.	Winter.		Sum	mer.	Winter.		
	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.	
has seed from sung "Advasa.		Kronor.							
1911	2.40	1.52	1.81	1.14	1.64	1.01	1, 13	0.7	
1914	2.62	1.65	1.97	1.24	1.80	1.10	1. 25	.8	
915	2.72	1.71	2.07	1. 29	1.88	1.16	1.31	. 8	
1916	3.28	2.05	2, 55	1.59	2.30	1.39	1.69	1.0	
1917	4, 23 5, 99	2.60	3. 20	2.00	2.95	1.74	2. 24	1.3	
1918		3.58	4.69	2.73	3. 95	2.35	3.08	1.7	
1919	7.36	4.36	5.90	3.33	4.95	2.91	3.65	2.1	
1920	8, 33	5, 22	6, 51	4.01	5.71	3, 27	4.23	2.5	

#### Temporary day laborers.

		1	- 1		1	1	1	
1911	2.79	1.67	2.04	1.25	1.94	1.14	1.32	0.83
1914	3.02	1.81	2.24	1.38	2.10	1.24	1.46	. 92
1915	3.13	1.87	2.34	1.43	2.18	1.29	1.55	.98
1916	3.77	2. 23	3.02	1.75	2.63	1.52	1.96	1.18
1917	5.00	2.95	4.00	2.29	3.43	1.93	2.63	1.46
1918	7.14	4.00	5. 62	3.07	4.75	2.67	3.63	2.02
1919	8. 58	4.82	6.72	3. 71	5. 76	3. 22	4.33	2.43
1920	9.37	5. 62	7.20	4.30	6.41	3.72	4.71	2.79

The increases in the cash wages of the day workers were not generally as great as those of the permanent workers. The percentage increases in summer wages of these groups, 1914 to 1920, appear in the following statement:

#### Per cent of increase in summer wages, 1914 to 1920.

Permanent workers:	Per cent.	Temporary workers:	Per cent
Men boarded by employer	217	Men boarded by employer	205
Men boarding themselves	218	Men boarding themselves	210
Women boarded by employe		Women boarded by employer	200
Women boarding themselves	216	Women boarding themselves.	210

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TABLE 8

Male: Fema Stata:

Day labor Men 1 Si W Men 1 Si

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In the general industrial depression of 1921 marked decreases in the wages of all Swedish agricultural laborers occurred. Table 8 gives these decreases for the various classes of workers with the percent of decrease.

TABLE 8.—DECREASE IN CASH WAGES (IN KRONOR) IN SWEDISH AGRICULTURE, 1921; AS COMPARED WITH 1920, BY CLASS OF WORKER, SEX, AND SEASON.

[Sweden. K. Socialstyrelsen. Sociala Meddelanden. Stockholm, No. 2, 1922, p. 85. Krona at par= 26.8 cents.]

Class of employees.	1920.	1921.	Per cent of decrease.
Permanent workers:	Per year.	Per year.	00.1
Male servants Female servants Statare—	1, 075 661	794 542	26, 1 18, 0
Horsemen	1,047	811	22.7
Cattlemen	1,158	912	21, 2
Day laborers: Men boarding themselves—	Per day.	Per day.	
Summer	9.37	6.79	27.7
Winter	7. 20	5. 14	28, 6
Summer.	6, 41	4.72	26, 4
Winter	4.71	3, 15	33. 1
Summer	5, 62	4. 42	21. 4
Winter Women boarded by employer—	4. 30	3.34	22. 3
Summer.	3, 72	3, 07	17.5
Winter	2.79	2. 24	19.7

Overtime.—Wages for overtime are usually 50 per cent higher than the regular hourly wages.

Wage Increase and Cost of Living for the Whole of Sweden,

Between 1913 and the end of 1919 total earnings of unmarried farm servants had increased by from about 170 to 180 per cent, and those of married servants by 190 per cent, while increases in the wages of day laborers ranged from 166 to 207 per cent. In July, 1919, as compared with July, 1914, the cost of living had increased 157 per cent, retail food prices being, July to December, 1919, from 210 to 220 per cent above the 1914 level.

By July, 1920, cost of living had increased to 170 per cent and in October, 1920, to 181 per cent above the 1914 level. Meanwhile, as shown in Tables 6 and 7, wages had also been rising. During the period 1913 to 1920 cash wages of all agricultural laborers reached an

estimated average increase of 220 per cent.11

#### Wage Contracts.

The yearly contract prevails among the permanent workers on Swedish farms, the hiring year being reckoned from October 24.

Sweden. Delegation for International Collaboration in Social Politics. The Swedish agricultural aborer. Stockholm, 1921, pp. 56, 57, and 61.
 Sweden. Statistiska Centralbyrån. Statistisk Årsbok, 1922. Stockholm, 1922, pp. 221 and 224.
 See The Swedish Agricultural Laborer, p. 64.

#### Collective Bargaining.12

Collective agreements in Swedish agriculture date back to 1906–7, but their use in the regulation of working conditions affecting farm labor did not become general until 1919, when a national agreement was entered into in which provisions dealing with overtime, right of organization, direction of work, accident insurance, etc., were included. During the same year a number of local agreements concerning wages and hours of labor were made. New local agreements in 1920 indicated an extension of the principle of collective bargaining to portions of the country where it had hitherto not existed. The national agreement of 1919, however, expires October 24, 1922, and local agreements of 1920 touching the question of wages and hours terminated in 1921.

As to the range of the collective agreements it may be said that while they are in force in three of the most important agricultural districts of Sweden, viz, Skåne, Östergötland, and the Vale of Mälar, the reports state that in not more than one-fourth of all the rural districts of the country are agricultural working conditions thus regulated, and that in parishes where the agreements have come into force they concern, in the main, only holdings of at least 50 hectares (123.6 acres).

In addition to the matters of increased wages, better housing, and shorter hours, the employees have from the first sought through collective agreements to safeguard their right of association. The national agreement of 1919 provided for the inviolability of the right of association on either side. It provided also that a dismissed worker might call for an inquiry through his association for the purpose of redress, but that an employer's objection to his employee's membership in a trade organization should not be considered a violation of the right of association. The agreement of the following year, however, went a step further and made the dismissal of a workman because of membership in a union a violation of the right of association. The refusal of an employer to give reasons, upon the demand of the employees' trade organization, for the dismissal of a workman was also to be regarded as a violation of the right of association. Provisions such as these are regarded as a marked departure from the patriarchal system which has hitherto largely prevailed in agricultural labor contracts. The personal relation existing between master and servant has been gradually transmuted into impersonal agreements between employers and employed, and the settlement of labor disputes, once a question between man and man, is now in the last resort referred to organizations of the two parties.

#### Hours of Labor.

Hours of labor in Swedish agriculture have gradually decreased as wages increased. The changes in this respect are shown in Table 9, which summarizes the results of investigations made over the period from 1911 to 1920.

<sup>&</sup>lt;sup>12</sup> Sweden. Delegation for International Collaboration in Social Politics. The Swedish agricultural laborer. Stockholm, 1921, pp. 37-40.

TABLE 9.—LENGTH OF AVERAGE WORKING DAY (HOURS) IN SWEDISH AGRICUL-TURE IN SUMMER, 1911 TO 1920.

 $[Sweden. \quad Delegation for International Collaboration in Social Politics. \quad The Swedish agricultural laborer. \\ Stockholm, 1921, p. 41.]$ 

Item.	1911	1912	1913	1914	1915	1916	1917	1918	1919	1 1920
Gross time	12. 7 2. 2 10. 5		12.6	12.6	12.5			12.3	12. 1 2. 2 9. 9	11.9

<sup>&</sup>lt;sup>1</sup> Sweden. Statistiska Centralbyrån. Årsbok, 1922. Stockholm, 1922, p. 212.

It appears from the table that the average net daily hours in summer for these workers decreased 0.7 hour (42 minutes), or 4.2 hours per week, between 1911 and 1920, the largest annual decrease, 0.2 hour (12 minutes) per day occurring between 1915 and 1916 and 1918 and 1919.

The length and distribution of hours of labor in agriculture always vary greatly with different classes of workers on different kinds of work. Information regarding average daily hours of three principal classes of farm workers in Sweden, viz, cattlemen, horsemen, and ordinary laborers in 1918 and 1919 is given in Table 10.

TABLE 16.—AVERAGE DAILY HOURS OF WORK IN SWEDISH AGRICULTURE, 1918 AND 1919, BY CLASS OF WORKER AND SEASON.

[Sweden. Delegation for International Collaboration in Social Politics. The Swedish agricultural laborer, Stockholm, 1921, p. 43.]

		Summer		Winter.			
Class of worker and year.	Gross time.	Meals.	Net time.	Gross time.	Meals.	Net time.	
'attlemen:							
1918	13.9	2.9	11.0	13. 4	2.8	10. 6	
1919	13.8	3.0	10.8	13.3	3.0	10.	
Iorsemen:							
1918	12.6	2.3	10.3	9.5	1.4	8.1	
1919	12.5	2.3	10.2	9.5	1.4	8.1	
ordinary laborers:				7.7			
1918	12.3	2.2	10.1	9. 2	1.3	7.9	
1919	12. 1	2.2	9.9	9. 1	1.3	7.8	

As usual and for obvious reasons the hours of labor of the cattlemen and horsemen were longer than those of ordinary laborers, but on the other hand the net decreases for the two former classes were greater than those for the latter in both years. The length of the working hours of cattlemen in winter, as compared with those of the other two classes, is a noticeable feature of the table.

Statistics regarding the length of the working year for 1919-20 were secured by an investigation covering 74 representative farms in central and southern Sweden, employing 1,637 workers regularly. The data submitted in Table 11 are based upon 656 of the male workers who had been employed for at least 11 months of the fiscal year in question. It was found that the average number of effective working hours, after deducting days off (89 hours per annum provided for in collective agreements), days of sickness, etc, amounted to 2,824 if

ordinary working time is considered, and to 2,978, or 154 more, if the additional hours spent in feeding stock, grooming horses, etc., are taken into account. The facts as they related to the different classes of workers follow:

TABLE 11.—AVERAGE NUMBER OF YEARLY WORKING HOURS OF SWEDISH AGRICUL.
TURAL LABOR, 1919-20, BY AGE AND CLASS OF WORKER.

[Sweden. Delegation for International Collaboration in Social Politics. The Swedish agricultural laborer. Stockholm, 1921, p. 48.]

				G===!=1	Other	C1	Age groups.			
Item.	Cattle- men. Horse- men.	Labor- ers.	Special work- ers.	Other work- ers.	General aver- age.	Under 18 years.	18 to 59 years.	60 years and over.		
Ordinary working hours Total working hours	3, 250 3, 299	2, 669 2, 983	2, 624 2, 669	2,706 2,748	2, 658 2, 776	2, 824 2, 978	2,709 2,838	2,813 2,983	2,944 3,013	

As compared with the length of working hours shown in the preceding tables the local collective agreements fixing hours of labor for the hiring year 1920–21 made in connection with the national agreement of 1919 are significant. In central Sweden, for instance, hours were fixed as follows: November, 8 hours per day; December,  $7\frac{1}{2}$ ; January, 8; February,  $8\frac{1}{2}$ ; March 1 to April 15, 9; April 16 to September 30, 10; October, 9 hours. In southern Sweden a more even distribution of working time was made. But with the exception of Skåne, where the working time is about 50 hours longer than in other counties, the average annual working time, under the new agreements, required deductions being made, amounted to 2,650 hours. According to available information it seems to be clear that the agreements for 1920–21 were not renewed, and just what the changes were in this respect during 1921 have not as yet been reported.

Agricultural work does not as a rule begin before 7 a. m. or end later than 7 p. m., though an extra hour off is granted on Saturdays,

making the closing hour 6 p. m.

# MINIMUM WAGE.

# Minimum Wage as Basis for Compensation Award.

A NOVEL application of the minimum wage law appears in an award by the Industrial Accident Commission of California published in volume 9 of its reported decisions, at page 31. The injured employee was a woman working as a machine operator for Clarence T. Braun & Co. at San Francisco, the injury resulting in the loss of her left arm near the elbow. She was receiving wages of \$15 per week, in disregard of the rate fixed by the California Industrial Welfare Commission, which was \$16 per week. In making the award the accident commission held that the indemnity should be computed upon the basis of the legal wage fixed by the welfare commission rather than on the wage actually paid in violation of law.

# Kansas Report on Minimum Wage, 1921.

THE minimum wage law of Kansas is now administered by the court of industrial relations of the State, and the report of the court gives an account of operations during the year 1921. The court was not organized until March, 1921, so that the work was subject to delay. However, the former secretary of the welfare commission was retained for a part of the year, and carried on surveys as to costs of living, wages, etc., as in earlier years. The results of the investigations are given in a suggested general cost of living budget amounting to \$16.93 per week. Cost of room is put at \$3.40, board at \$6.35, clothing at \$3.31, and sundries at \$3.87. Of the latter, car fare (\$1.05), laundry (50 cents), and amusements (50 cents), are the largest items.

All orders have been reopened, and dates were set for hearings in December, but these were postponed on account of the packers' strike, which occupied the attention of the court. New dates were set in February, 1922, after which tentative orders were to be drawn, followed by a final public hearing and promulgation. The abrogation of representative boards, which took place with the transfer of the work to the court, was looked upon as a step in the direction of efficiency and prompt action, as the boards "had proved a clumsy arrangement and had often been able to block all legislation because

of disagreement."

### PRODUCTIVITY OF LABOR.

Output of Coal Miners in Great Britain and Various Other Countries.

A REPORT published by the Monmouthshire and South Wales Coal Owners' Association gives data (pp. 68-73) relating to the individual output of miners in the Monmouthshire and South Wales coal fields and similar information (pp. 226, 227) for the coal miners of the United Kingdom, other British possessions, and the principal coal-producing countries of the world.

The following table shows the number of miners (pieceworkers) actually engaged in getting out coal and the average weekly output of pieceworkers in the coal mines of Monmouthshire and South Wales, by quarters, from 1919 to 1922:

NUMBER OF PIECEWORKERS, AND AVERAGE WEEKLY OUTPUT PER PIECEWORKER IN MONMOUTHSHIRE AND SOUTH WALES COAL FIELDS, BY QUARTERS, OCTOBER 11, 1919 TO JANUARY 7, 1922.

Quarter ending—	Pieceworkers: Average number of coal getters (including colliers' helpers).	Weekly output per pieceworker (tons of 2,240 pounds).
October 11, 1919	109,072	7.22
January 10, 1920	112, 108	8, 25
July 10, 1920	113, 190 114, 034	8, 39 8, 18
October 9, 1920	114, 531	7.81
January 8, 1921	115,670	6, 26
April 9, 1921	114, 271	5. 59
July 9, 1921 October 8, 1921	(1)	(1) 9, 29
January 7, 1922	92,049	9, 59

<sup>1</sup> National strike.

The table following, taken from the report (with the exception of additional data for the United States, Belgium, and Japan), shows the average yearly tonnage output per man for underground and surface workers combined, for various periods in the different countries from 1885 to 1921:

<sup>&</sup>lt;sup>1</sup> Gibson, Finlay A. A compilation of statistics of the coal mining industry of the United Kingdom, the various coal fields thereof, and the principal foreign countries of the world. Cardiff, 1922.

AVERAGE OUTPUT PER MAN PER YEAR IN PRINCIPAL COAL-PRODUCING COUNTRIES, 1885 TO 1921.

[In tons of 2,240 pounds.]

Year.	United King- dom.	Brit- ish In- dia.	Can-		South Africa (Cape of Good Hope, Natal, Trans- vaal, and Orange Free State.	United States.	Ger- many.	France.	Bel- gium	Rus-	Aus- tria- Hun- gary.	Jap- an.	Swe- den.	Spain.
1885	318	57	315	353	74		263	190	166	134	177		143	102
1886	312	56	332	354	105		263	193	169	136	174		164	103
1887	317	55	375	348	91		274	205	179	136	180		147	118
1888	327	58	353	353	305		285	214	183	134	187		145	111
1889	320	65	306	345	71	421	276	217	181	141	185	104	132	114
1890	299	66	347	301	113	443	264	213	171	146	180	123	117	123
1891	288	67	360	365	111	453	256	195	162	152	176	89	124	102
1892	275	66		356	101	468	243	194	162	157	176	112	129	112
1893	247	68	388	321	161	448	250	191	163	155	177	109	128	113
1894	271	65	391	379	162	405	252	202	172	166	175	99	126	107
1895	273	61	359	391	188	450	256	202	169	173	175	88	143	110
1896	284	62	383	390	175	443	267	206	175	175	174	93	137	106
897	293	68	447	427	164	450	267	213	176	168	178	63	136	134
1898	288	73	501	432	174	490	265	214	177	172	177	88	140	139
1899	304	68	472	429	158	552	264	211	173	160	179	111	137	142
1900	291 273	69	477	452	142	537	260	203	174	146	160	106	135	129
1901	277	70 76	497 552	456 435		539 520	238 234	195 179	163	137	164	118	128	130
903	275	84	462	446	187 190	563	244	206	174 167	153 166	163 169	122 117	138 143	120
904	276	89	468	421	195	529	242	196	155	164	175	120	149	123 139
905	277	95	509	456	210	560	242	202	159	153	187	149	154	142
906	287	99	514	487	224	577	264	188	166	147	195	121	142	131
907	287	99	425	487	233	630	258	197	163	155	195	106	149	153
908	267	99	422	494	231	538	243	189	160	146	190	115	147	150
909	262	99	400	399	285	617	236	195	162	155	181	97	123	162
910	254	104	453	453	301	618	239	192	164		183	112	146	156
911	257	109	395	484	313	613	248	192	157		191	119	144	145
912	241	111	472	535	341	660	269	200	155			1127	165	
913	255					681			2 155			1122		
914	234					531			2 128			1120		
915	265					646			2 112			1104		
916	257					721		******	2 132			1114		******
917	243					767			2 131			1103		
918	226	*****				794			2 123					
919	193	120			280	3 637		******				1 88		
920	183	97			297	3 743		******						
921	147													

<sup>&</sup>lt;sup>1</sup> Computed from the Twenty-first Financial and Economic Annual of Japan, 1921. Tokyo [1922]. Pp. 61, 65.

<sup>2</sup> Råush, G. A. The Mineral Industry during 1919, New York, 1920. P. 119.

<sup>3</sup> Computed from report of U. S. Geological Survey, Apr. 1, 1922, No. 246.

# LABOR AGREEMENTS, AWARDS, AND DECISIONS.

# Building Trades-Boston.

A AGREEMENT has recently been signed by the Building Trades Employers' Association and the United Building Trades Council of Boston which is expected to stabilize wages and working conditions in that locality. In the summer of 1921 the workers in building trades struck for an increase of wages, and after a hard fight were defeated. The employers established a rate of 90 cents an hour for the basic trades and declared the open shop. When, this spring, the boom in building brought about a scarcity of skilled building workers, the men began to demand increases in pay, and the situation was such that they were likely to get them. Under these circumstances, it seemed to both sides that it would be better to return to a formal contract between the two sides, so that both might have a reliable basis for estimating expenses and earnings, and the present agreement, signed July 14, 1922, is the outcome of this attitude.

The wage set for the basic trades is, in general, \$1 an hour, running up to \$1.12 $\frac{1}{2}$  for bricklayers, stonemasons, and plasterers, and \$1.20 for hoisting engineers. The employers agree not to hire nonunion men unless the unions are unable to furnish a sufficiency of members to do the work, and the unions bind themselves, if this latter situation arises, to work with nonunion men. The 44-hour week is established, with time and a half for overtime and double pay for Sunday and holiday work. Both sides agree that there shall be no lockouts, strikes, or stoppages of work, excepting only cases in which nonunion men are hired when union men are obtainable; in this case 48 hours' notice of the situation must be given to the secretaries of the two associations before work is stopped. Grievances of every kind are to be adjusted by an arbitration board. To form this board, both employers and employees shall designate one member and one alternate from each of their trade subdivisions, the number of employer and employee representatives to be equal. The employer and employee representatives thus chosen are each to select a chairman and secretary for their own side, and also to name three umpires, the six people thus selected to form the panel of umpires. The board may, when it thinks best, work through subcommittees. This board is to have jurisdiction over all disputes.

It is clearly understood that this arbitration board is to settle any and all disagreements, misunderstanlings, or questioned interpretations of any kind that may arise in any trade or between any employer or employee group, or between two or more employer or employee groups that may occur during the life of this agreement. All findings and judgments of this arbitration board are to be conclusive and binding upon all parties concerned during the life of this agreement.

If the board is unable to reach a unanimous agreement in any case, the question is to be referred to a special section "consisting of equal

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number of members from each group representing the trades or subdivisions who have an interest in the question." If this section fails to reach a unanimous agreement within 48 hours of its appointment, it is to choose by lot one name from the panel of umpires. The umpire thus chosen is to hear the case and to make an award within 72 hours from the time all evidence and argument have been presented to him, and his award shall be final and binding on all parties.

This agreement will expire on April 1, 1923, but if neither party to this agreement gives notice in writing to the other party on or before January 1, 1923, that it desires a change, then this agreement shall continue in effect until April 1, 1924, and so on each year thereafter. If, however, three months' notice in writing is given by either party to this agreement to the other party on January 1 of any year that it desires a change in this agreement, then negotiations shall be entered into for a new agreement by both parties not later than January 10 of any year.

# Agreement Concerning Employment of Bricklayers' Helpers.

ON JUNE 5, 1922, an agreement was signed in New York City between the Mason Builders' Association and the Independent Bricklayers' Helpers and Building Laborers' Union of America (Inc.), covering hours, wages, and working conditions. The wage is fixed at 87½ cents an hour, and the week at 44 hours, with an hour and a half more permitted for men engaged in mixing, tempering, or distributing mortar. Time and a half is to be paid for overtime and double pay for work on Sunday or holidays. The work of bricklayers' helpers is defined, and it is stipulated that wages are to be paid weekly, "before 12 noon, Saturday." The men bind themselves not to affiliate with any other labor organization and not to go out on any sympathetic strike. They agree not to quit the work of a member of the Mason Builders' Association and to submit all disputes to the joint arbitration committee for settlement. Business agents of the union are to be free to visit jobs during working hours. The agreement is to expire December 31, 1922.

# Hat and Cap Industry-New York.

THE strike of 5,000 hat and cap workers of New York City was settled by an agreement entered into on July 19, between the Cloth Hat and Cap Manufacturers' Association and the Joint Council of New York of the United Cloth Hat and Cap Makers of North America. Sections V and VIII of the new agreement embody important changes. Section V is intended to eliminate the social shop by requiring the manufacturers to do practically all of their work in their inside shops. Section VIII provides for the establishment of production standards and for arbitration of this question in case of disagreement. Following is the new two-year agreement:

Both parties are desirous of bettering conditions in the cloth hat and cap industry, and of obtaining as far as possible equalization of standards of labor throughout the industry by methods of conciliation and arbitration. To accomplish this end, the union and the association enter herewith into this collective agreement, pledging their good faith to cooperate for the enforcement of its provisions.

More specifically, the association herewith assumes full responsibility for its indi-'vidual members, that all provisions of this agreement and board decisions will be faithfully carried out by them. The union believing in the principle of a fair day's labor for a fair day's pay, obligates itself in good faith for all of its members, that they will perform their work conscientiously, faithfully, and efficiently.

#### I. EMPLOYMENT.

(a) The association agrees that its members will employ none but members in good standing of the United Cloth Hat and Cap Makers of North America.

(b) The members of the association requiring help shall apply to the association which in turn shall arrange with the union for the supplying of cap makers for caps and hat makers for hats, and such other skilled help as may be required.

Workers efficient in both hat making and cap making employed in either department shall have the preference for employment in the other departments of the same shop before any new help.

Any claim of neglect or improper allocation of help to manufacturers in the supply of help by the union shall be considered and acted upon by the board of adjustment.

(c) The employees shall give three days' notice to employers before leaving their

positions.

(d) When a worker who is indispensable in the factory serves notice of leaving, the employer shall immediately notify the union, through the association, and such worker shall not leave before the union is able to replace him or her. This, however, shall not be applied to workers who are leaving the trade or the city.

(e) No worker shall be discharged without sufficient cause or reason, nor until an opportunity has been given for a joint investigation as to the sufficiency of the cause and reason. In case of disagreement the board of adjustment shall decide after a

#### II. HOURS AND OVERTIME.

(a) A week's work shall consist of 44 hours, as follows: During the months of June, July, and August, on the first four working days of the week, work shall begin at 8 a. m. and continue to 12 m., and from 1 p. m. to 6 p. m., and on the fifth working day of the week, work shall begin at 8 a. m. and continue to 12 m., and from 1 p. m. to 5 p. m. During the balance of the year the 44 working hours may be distributed either as provided above or as follows:

On the first five working days of the week work shall begin at 8 a. m. and continue to 12 m., and from 1 p. m. to 5 p. m. On Saturdays work shall begin at 8 a. m. and

continue to 12 m.

(b) No overtime work shall be permitted during the months of June, July, and August, nor on Saturdays and Sundays during the balance of the year, nor shall more than eight hours overtime be permitted in any one week, same to be worked during the first four days of the week. Should conditions in the trade at any time warrant a deviation from the above regulation of overtime, the matter shall be taken up in conference between the association and the union, with the chairman of the board of adjustment as chairman, for such adjustment as the needs of the industry may

(c) All overtime work shall be paid for at the rate of time and one-half.

(d) Any worker who habitually comes in late during the week when overtime is being worked shall be entitled to the overtime rate of time and one-half for as many hours only as he or she works in excess of 44 hours.

#### III. HOLIDAYS.

(a) The following legal holidays shall be observed and the workers shall receive pay for same, namely: New Year's Day, Washington's Birthday, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, and the latter half of election day. During the week in which a legal holiday occurs employees working less than a full week shall be paid for the holidays pro rata for the hours worked.

New employees shall not be entitled to pay for holidays during the two weeks of

trial; such workers, however, upon becoming permanent workers should receive back pay for such holidays with their fourth week's pay.

(b) Employees of firms that observe all the Jewish holidays shall substitute for the above-named holidays the latter half of election day, and the following religious holidays, and be paid for same: The first day of the Jewish New Year, Day of Atonement, Eighth Day of the Feast of Tabernacles, first day and last day of Passover, and the first day of Shevuos. During the week in which the holiday occurs employees working less than the full week shall be paid pro rata for the hours worked.

#### IV. WAGES.

(a) The system of work shall be by the week in all departments.

(b) Newly engaged workers not covered by a standard of production shall work for the two weeks' trial period at a price mutually agreed upon by the employer and the employee. During, or at the end of this period, the employer and worker shall agree upon a price which shall be his or her fixed wages.

(c) All wages shall be paid weekly, in full, and in cash on a specified day.

#### V. Contractors.

(a) The practice of giving out a large part of the work to outside shops encouraged the establishment and development of the so-called "corporation" and social shops, which in turn kept the workers of the legitimate shops unemployed for months and months.

It is the position of the union that by giving out their work, the greatest part of which went to the social or "corporation" shops, the manufacturers have thrown off all responsibility to the workers and the industry. For hours, wages, and working conditions in these social or "corporation" shops, as well as standards of workmanship and sanitation are below reasonable standards.

It is the position of the manufacturers that they had to adopt that course because

of the lack of standards of production which made it impossible for them to ascertain definitely in advance the labor cost of every article.

Both parties agree that the development of the social shop is bound to undermine the entire industry. For the cut-throat competition of the social shop is based on the lowering of all working conditions and tradestandards, on a cheapening of the quality of the article, and on the gradual reduction of the trade to the position of a sweatshop trade. Both sides fully indorse the statement of the board of arbitration of May, 1921, to the effect that "the illegitimate social shop is detrimental to the industry as a whole, and therefore to the legitimate manufacturers and to the organized workers." The association pledges itself, for its members, to assume full responsibility to their

workers especially with regard to supplying them with continuous employment as far

as possible.

The union pledges itself to cooperate in the establishment of a reasonable and uniform standard of production in the trade, so as to meet the point raised by the manufacturers as their reason for giving out work.

In accordance with the above declaration the following provisions are to be enforced:
(b) The members of the association shall have their work made in their own shops, with the exception of such work as may be agreed upon between the association and the union for every individual manufacturer, subject to the following rules:

(1) Exceptions are to be permitted for such work which the respective manufacturer is not adapted to make in his own shop. The question whether a manufacturer is or is not adapted to do certain kinds of work shall be determined by the long established

practice of the firm, especially that prevailing during normal times.

(2) The respective manufacturer shall register with the union the shops with which he contracts for work that is subject to exception in accordance with clause I above. No manufacturer shall give out such work to any shop that is not a duly recognized union shop.

#### VI. MISCELLANEOUS PROVISIONS.

(a) Time lost by the workers on account of an accidental breakdown of power, caused by agencies beyond the control and remedy of the employer should be made up during a period of one to two weeks in regular time. The arrangements to make up such lost time should be made between the employer and the committee of the

shop.

(b) During a period when there is not enough work in either the trimming or lining making branches to keep the workers of either branch fully occupied, the workers may be shifted from either of these branches to the other, or to the operators' branch to sew covers or to work on the special machines, provided the transfer of a worker from one branch to another does not replace a worker in any other branch. The employer must notify the union, through the association, of such change. It is further understood that such workers are to be returned to their original branch of work when there is sufficient work in such branches to keep them occupied.

(c) Foremen, foreladies, or any member of the firm shall not perform any work. which could be done by a regular worker, but must confine themselves to their managerial duties.

(d) The workers shall not be required to work for any firm, although a member of the association, which will work for or supply work to any firm during the pendency of strikes called or conducted by the union, against the latter firm.

(e) There shall be no opposition or interference with the introduction of new machinery on the part of the union, provided that such introduction does not eliminate from employment workers in the shop where such machinery is introduced.

(f) There shall be equal division of work among all the workers in the shop at all times. Arrangements for the division of work shall be made at least one day in advance between the firm and the committee of the workers.

(g) The union agrees that in any other agreement to be made with any other individual employer in Greater New York during the life of this agreement, the stipulated condition of work and wages shall be in no wise less than the terms of this agreement.

#### VII. ADJUSTMENT OF DISPUTES.

(a) The parties to this agreement agree that there shall be no strike or lockout during the continuance of this agreement for any reason whatsoever, or because of any matter in controversy or dispute between the association and the union, or between any member of the association and any member of the union, but that all matters in controversy or dispute, if any, which the firm and its workers have been unable to adjust, shall be immediately referred to the managers of the respective organizations, by the party or parties aggrieved for immediate joint investigation and adjustment.

(b) During the pendency of the controversy, a stoppage or a cessation of work shall not be permitted, whether by the authority of a representative of the union, or in any other way. In the event that the representatives of the parties hereto shall be unable to adjust the controversy or dispute, the same shall immediately be referred to the committee on adjustment whose decision shall be final and binding upon the parties to this agreement.

(c) The committee on adjustment shall consist of five members, two representing the association, two representing the union, and the chairman agreed upon by the four, and designated for the life of the agreement.

#### VIII. STANDARDS OF PRODUCTION.

(a) Immediately upon the signing of this agreement, arrangements shall be made by the union and the association to continue the negotiations that have been going on immediately preceding the signing of this agreement for the establishment of a reasonable and uniform standard of production in the trade.

(b) Both sides pledge themselves to make every effort in order to complete the negotiations and arrive at a mutually satisfactory understanding on the question of

standards of production, as soon as possible.

(c) In case the union and the association shall fail to come to an understanding on the question of standards of production by the end of three months from the date of the signing of this agreement, the question shall immediately be submitted to arbitration, both sides binding themselves to abide by the decision of the arbitrator, such decision to become an integral part of this agreement.

#### IX. DURATION.

(a) This agreement goes into effect the week of July 19, 1922, and shall terminate on June 30, 1924. On or about March 15, 1923, the association or the union shall have the right to call the other side into conference for the consideration of the question of wages, standards of production and other trade questions. In the event that the parties of this agreement fail to agree on the question of wages or standards of production, their differences shall be submitted to a board of arbitration consisting of one representative of the association, one representative of the union and a chairman designated by the association and the union. The decision of the board of arbitration, which must be rendered not later than June 1, shall be binding upon the parties for the life of the agreement, namely, up to June 30, 1924.

(b) Not later than May 1, 1924, a conference shall take place between the authorized representatives of the association and the union to take up the question of renewal, revision, or modification of the agreement.

## Iron and Steel Industry.

THE annual conferences of the Amalgamated Association of Iron, Steel, and Tin Workers with the Western Bar Iron Association and the Western Association of Sheet and Tin Plate Manufacturers held in June, resulted in a renewal for another year of the sliding scale agreements between these associations of manufacturers and the union. There were minor changes only in the sheet and tin mill scales. The base rates on coke machines were reduced 5 per cent. This reduction affects tin house workers only, who represent but a small proportion of the workers in the tin mills. A number of minor changes were made affecting working conditions, and the following new clauses were added to the memorandum of agreement:

It is further agreed that when improved machinery or methods of operation are introduced into mills, thus increasing the output and reducing the work of the men,

there shall be a readjustment of the scale governing such work.

It is further agreed that when and where misunderstandings arise as to the proper interpretation of any part of this agreement, that the proper official or officials of the association with the local committee shall first discuss the matter with the management before any rulings on same are rendered. It is understood that pending such investigation and discussion, there shall be no cessation of work by men affected.

Eighteen companies participated in the conferences which resulted

in this agreement.

In the contract between the Western Bar Iron Association and the Amalgamated Association of Iron, Steel, and Tin Workers an advance in the base rates for boiling metal was granted to the bar iron workers for the 12-month period beginning July 1. The basic puddling rate was increased from \$5.50 to \$6 a ton on a 1-cent card rate, and a 50-cent advance applied at all card points above the 1-cent card rate. For the May-June period the boiling rate of \$7.63 was based on a 1.50-cent card. The new rate is \$8.13. Otherwise this agreement remains virtually unchanged.

# Printing Trades.

## Cleveland.

THE new "continuing" agreement between the Employing Printers of Cleveland, Ohio, and the Cleveland Typographical Union No. 53 is of interest, not only for its content, but also for its form. It illustrates the attempt of the International Typographical Union to evolve a model universal contract form. In January, 1922, the International Typographical Union published in "The Bulletin" a tentative plan for a uniform contract and scale, suggesting a certain arrangement of the items of the contract. The Cleveland Typographical Union No. 53 has adopted this form for its new agreement effective May 1, 1922. Following is this agreement in full:

#### SCHEDULE A-ARBITRATION AGREEMENT.

#### PART I-IDENTIFICATION.

This agreement is made between Employing Printers of Cleveland, Ohio, hereinafter called "the association," and Cleveland Typographical Union No. 53, hereinafter called "the union."

#### PART II-DURATION.

Effective April 1, 1922, to April 1, 1925, in full force in all of its terms and as set

forth in this agreement.

Terms of this agreement shall continue in full force and effect for three years and thereafter from year to year unless either party to the agreement shall, not less than ninety days before the expiration, notify the other party in writing of its intention to terminate same.

#### PART III-PROTECTION.

All members of "the association" shall be protected under this agreement by "the union" against walkouts, strikes, boycotts, or any other form of concerted interference with the peaceful operation of all departments coming under the jurisdiction of "the union"; and it is further provided that "the association" agrees with "the union" to arbitrate any and all differences that may arise under this agreement between "the association" and "the union," if those differences can not be first settled by con-

All disputes arising over provisions in the wage scale and working conditions contract herein referred to as "Schedule B," shall be subject to arbitration under the

provisions of this agreement if such disputes can not be adjusted through conciliation.

All employers holding membership in "the association" shall be accorded terms and conditions as good as or better than those accorded employers who are not members of "the association"

'the association.

Pending final decisions by the arbitrators, work without interference under existing conditions shall continue in the office of the employing printer, party to the case, and the award by said arbitrator shall in all cases include a determination of the issues involved, covering the period between the raising of the issues and their final settlement; and any change or changes in the wage scale of employees may, at the discretion of the arbitrator, be made effective from the date issues were first made.

#### PART IV-REFERENCE TO WAGE SCALE AND WORKING CONDITIONS CONTRACT.

"The association" and "the union" hereby agree to enter into a wage scale and working conditions contract, herein referred to as "Schedule B," for a set period, fixing the wages, hours, and working conditions of members of "the union" employed by members of "the association," which scale contract may be amended, extended, or abrogated in accordance with provisions herein expressed without in any way affecting any of the terms or conditions of this arbitration agreement, and this arbitration agreement may be altered, amended or extended without affecting any of the terms or conditions of said scale contract. The wages, hours and working conditions set forth in the said "Schedule B" contract will be inaugurated and maintained by both parties to this agreement, and "the union" further agrees that it will not allow any of its members to work for less wages or more hours than those set forth in said "Schedule B."

#### PART V-REFERENCE TO LOCAL AND INTERNATIONAL UNION LAWS.

The constitution and by-laws of Cleveland Typographical Union No. 53, as existing and in force May 1, 1922, and the constitution and by-laws of the International Typographical Union, as existing and in effect on May 1, 1922, a copy of each of which is hereto attached, are made a part of this contract, subject to such changes as will not alter nor affect the relations of the principals of this document during the life of this contract.

## PART VI-ORGANIZATION AND TIME LIMITS.

There shall be a standing committee known as the joint conference committee, which shall consist of five members and five alternates appointed by "the association" and a like number of members and alternates appointed by "the union." This committee shall meet separately on the call of the chairman of each part for consultation, and jointly by the call of the chairman of each committee, at such time and place as may be determined by them. Due notice in writing of such meeting shall be given all interested parties. A majority vote of each part of the committee shall be necessary to a decision.

The chairman of the joint conference committee for "the association" and the president of "the union" or such representative as they may delegate shall be consti-

tuted a preliminary joint conference committee for conciliation.

The said joint conference committee must act within five (5) full business days when its services are desired by either party.

The alternates may meet with the committee of the organization to which they belong, but shall not take part in the proceedings of the joint conference committee

except as substitutes.

When the joint conference committee renders a decision which is unsatisfactory to either side, or when it is unable to reach a decision within ten (10) full business days after the final submission of the case to said committee, then review by an arbitrator to be appointed by mutual agreement may be asked for by the dissatisfied party through appeal, provided written notice of appeal to the other party be given within five (5) full business days after decision has been rendered, and a written statement setting forth the grounds of the appeal is filed with the joint conference committee within ten (10) full business days after the decision has been rendered.

In event it becomes necessary under this agreement to have an arbitrator, he is to be selected by a majority vote of each part of the joint conference committee. Should the conferees fail to agree on an arbitrator within ten (10) full business days, he shall

be selected by the presiding judge of common pleas court.

The conditions obtaining before the initiation of the dispute shall remain in effect pending the finding of the joint conference committee or arbitrator.

### PART VII-PROCEDURE.

All difference of opinion, complaints, disputes of any character on any question arising between the parties of this agreement shall be submitted for conciliation to the preliminary joint conference committee made up of the president of "the union" or his appointed representatives, and the chairman of the conference committee of "the association" or his appointed representative, and if conciliation fails, then and at all times said differences shall be submitted to the joint conference committee.

The preliminary joint conference committee may settle minor questions not involving far-reaching precedents; all questions involving precedents shall be referred to the

joint conference committee for decision.

The following rules shall govern the joint conference committee in adjusting differences between parties to this agreement:

(a) It may demand duplicate typewritten statements of grievances.

(b) It may examine all parties involved in any differences referred to it for adjudication.

(c) It may employ such stenographer or clerks as may prove necessary to facilitate its business.

(d) It may require affidavit on any or all disputed points.

 (e) It shall allow equal opportunity for presentation of evidence or argument.
 (f) Its deliberations shall be conducted in executive session and the findings, whether unanimous or not, shall be signed by all members of the board in each instance, or shall be certified to by the chairman and secretary of the joint committee to the two parties to this agreement. A member of the joint conference committee may hand in a dissenting opinion to become a part of the records of the proceedings.

(g) In the event that either party to the dispute refuses to appear or present his case after due notice, it may be adjudicated and findings rendered in accordance with such

evidence as may be in the possession of the committee.

(h) All evidence communicated to the committee in confidence shall be preserved inviolate and no record of such evidence shall be kept except for use on appeal, in which case such inviolability shall still be preserved.

(i) All expenses attendant upon the settlement of any appeal of hearing before the committee or arbitrator shall be borne by the party losing the appeal or, in case of a compromise being reached, each party to the controversy shall bear half of the cost.

In case the matter in dispute is finally referred to an arbitrator both parties to the controversy shall appear personally or by proxy, the proxy to be a duly recognized member of either body, in good standing, or may submit records and briefs, and may make oral or written arguments in support of their several contentions. They may submit an agreed statement of facts or a transcript of testimony properly certified to before a notary public by the stenographer taking the original evidence or depositions.

### PART VIII-BINDING FORCE OF DECISIONS AND PENALTIES FOR VIOLATION.

The decision of the impartial arbitrator shall be final and binding on both parties to this agreement. In the event that either party to the dispute refuses to accept and comply with the decision of the arbitrator, all aid and support to the firm or employer, or member or members of "the union" refusing such acceptance and compliance shall be withdrawn by both parties to this agreement. The act or acts of such employer or "member of "the union" shall be publicly disavowed and the aggrieved party to this agreement shall be furnished by the other party thereto with an official document to such effect.

SCHEDULE B-WAGE SCALE AND WORKING CONDITIONS.

#### PART I-IDENTIFICATION.

Wage scale and working conditions contract between the Employing Printers of Cleveland and Cleveland Typographical Union No. 53.

#### PART II-DURATION.

Effective as of April 1, 1922, to April 1, 1925, subject to opening by either party for readjustment on January 1, 1923, and January 1, 1924, only as to the rate of wages set forth in the wage schedule of this agreement; such readjustments to be based on changes in the cost of living and the economic condition of the industry at the date of readjustment. The changes in the cost of living are to be computed from 1914 as a base, using the data of the United States Bureau of Labor Statistics, where available, published or officially issued next prior to thirty days prior to the date when the new wage scale, if any, goes into effect; or in lieu thereof when not available such authorities, for the period defined for the data from the United States Bureau of Labor Statistics, as are jointly agreed upon.

Either party desiring to open up the wage scale on the dates specified must give the other party at least sixty days' notice prior to the date agreed upon for the opening of the wage scale.

### PART III-CONCILIATION AND ARBITRATION.

No precedents or previous conditions, rules or agreements shall be recognized in any way, or affect or modify this contract, which is to be interpreted or changed only in accordance with the procedure set forth in the arbitration agreement known as Schedule A.

All complaints emanating from either party to this contract shall receive prompt acknowledgment and attention and every effort shall and must be made to reach a prompt and satisfactory adjustment thereof.

#### PART IV-SCALE OF PRICES.

The scale of prices and working conditions hereinafter set forth shall govern the members of Cleveland Typographical Union No. 53 employed in commercial plants from and after April 1, 1922, for a period of three years, or until April 1, 1925, subject to readjustment only as to rate of wages as provided in Part II, Schedule B, in consideration of which the union agrees to furnish a sufficient number of competent workmen to enable the employers to prosecute their business in the usual manner; and the said employers agree to employ in their composing rooms as foremen, assistant foremen, hand compositors, proofreaders, stonemen, bankmen, machine operators, caster operators, and machine tenders none but members of Cleveland Typographical Union No. 53.

SEC. I. The minimum day scale of wages for hand compositors, proofreaders, stonemen, bankmen, machine operators, caster operators, machine tenders, and all other classes of composing-room work performed by journeymen members of Cleveland Typographical Union No. 53 shall be \$41.25 perseek.

Sec. 2. The minimum night scale of wages for hand compositors, proofreaders, stonemen, bankmen, machine operators, caster operators, machine tenders, and all other classes of composing-room work performed by journeymen members of Cleveland Typographical Union No. 53 shall be \$45.37 per week.

Sec. 3. The minimum "lobster shift" scale of wages for hand compositors, proof-

Sec. 3. The minimum "lobster shift" scale of wages for hand compositors, proofreaders, stonemen, bankmen, machine operators, caster operators, machine tenders, and all other classes of composing-room work performed by journeymen members shall be \$49.90 per week. The "lobster shift" hours to be between those of the night and day shifts, or at the convenience of plants operating continuous hours.

SEC. 4. The Employing Printers of Cleveland, Ohio (party of the first part), agree to pay for all services rendered by members of Cleveland Typographical Union (party of the second part) in good and lawful money of the United States, on a regular and established pay day, within forty-eight hours of the close of the trade week during which the individual has been employed.

Sec. 5. The party of the second part agrees that its members shall not leave the service of any of the firms constituting the party of the first part until reasonable notice to the foreman of the department shall have enabled him to fill the vacancy. SEC. 6. The party of the second part further agrees that its members will work

at any and all times where the emergency of the office may require.

Sec. 7. It is agreed and understood that the composing rooms shall be kept in a sanitary condition at all times, the party of the first part agreeing to furnish such necessary facilities as will tend to the observance of this provision, and the party of the second part agreeing to make the necessary regulations to cooperate with the party of the first part in this regard.

#### PART V-WORKING CONDITIONS.

## Day shift.

Hours: Five days of eight consecutive hours (exclusive of time for lunch) and four hours on Saturday shall constitute a week's work, the hours to be between 7.30 a.m. and 5 p. m., except on Saturday, when the hours shall be between 7.30 a. m. and 12 noon.

Holidays: January 1, May 30, July 4, Labor Day, Thanksgiving Day, December 25 and Sundays. The night of the holiday shall be the holiday for night shifts.

Overtime: Price and one-half for work performed after the regular time until mid-

night; double time thereafter.

Double price for work performed on all holidays and Saturday afternoons. Employees on either day or night shift shall be notified the night previous to being laid off. Should they not be notified and show up for work they shall be paid one-half day's pay.

### Night shift.

Hours: Five nights of eight consecutive hours (exclusive of lunch time) and four hours on Saturday shall constitute a week's work.

## Overtime for night crews.

Time and one-half of the night scale for the first four hours and after that double time.

Work performed after the regular established hours by night crew shall be paid for at double of night scale.

### Apprentice regulations.

Apprentices may be employed in the offices of the Employing Printers of Cleveland,

Ohio, subject to the following regulations:

1. One apprentice for five journeymen or major fraction thereof, regularly employed; two apprentices for from eight to fourteen journeymen; three apprentices for from fifteen to twenty-two journeymen; four apprentices for from twenty-three to thirty-four journeymen; five apprentices to thirty-five or more journeymen. In no office shall there be more than five apprentices.

2. Apprentices shall be not less than sixteen years of age at the beginning of their apprenticeship, and shall serve a term of five years. The term of five years may be extended by the joint apprentice committee when in its judgment conditions warrant an extension. All apprentices must be indentured and registered by the Employing Printers of Cleveland, Ohio, Cleveland Typographical Union No. 53, and the Interna-

tional Typographical Union.

3. In the first and second years an apprentice may be required to perform general work in the composing room, at the discretion of the foreman; in the third year an apprentice shall be employed at least four hours each day at composition and distribution; in the fourth year an apprentice shall be employed at least six hours each day at composition and distribution; an apprentice in his fifth year shall be employed at least seven hours each day at composition and distribution.

4. Office boys (not registered apprentices), are prohibited from leading or unleading matter, setting or distributing type, correcting proofs, or lifting matter in or out

of forms.

5. The minimum scale of wages to be paid apprentices of the years stated shall be in the following percentage ratio to the journeymen's scale: Third year, first six months, 40 per cent; second six months, 50 per cent; fourth year, first six months, 60 per cent; second six months, 70 per cent; fifth year, first six months, 80 per cent; second six months, 90 per cent.

6. At the completion of the second year of their apprenticeship all apprentices, if competent, must be admitted as apprentice members of the union, and the union shall protect them against unfair discrimination and discharge.

7. Beginning with the third year of apprenticeship, the secretary of Cleveland Typographical Union No. 53 shall grant the apprentice a card endorsed for each year's

service.

8. The apprentice shall receive the same protection as journeymen, and shall be governed by the same rules, working conditions and hours. No apprentice shall work overtime unless eighteen years of age, and then only when one or more of the regular journeymen, other than the foreman, is employed. Ratio as given above shall be maintained.

Joint apprentice committee.

1. A joint apprentice committee, composed of two members of the Employing Printers of Cleveland, Ohio, and two members of Cleveland Typographical Union No. 53 shall be formed.

2. The committee is charged with the duty and responsibility of making and enforcing regulations that will afford apprentices every opportunity to thoroughly learn the

trade.

3. The committee shall see to it that all apprentices, before being indentured and registered, possess a grammar school education and are physically, mentally, and morally fitted to the needs of the trade.

4. The committee shall devise means and ways for the further education of the

apprentices by continuation study.

5. The committee can require the apprentice to take a reasonable amount of home study so as to prepare himself for examination at the end of each year of his apprenticeship.

6. The committee shall outline the grade and classes of work apprentices shall follow from year to year, and shall require apprentices to appear for examination at the

end of each year of their apprenticeship.

7. The committee shall have full power and authority any time during the term of apprenticeship to cancel the indenture papers of an apprentice who does not show aptitude and proper qualifications for the work. Apprentices can not leave the office of one employer and accept work in the office of another employer without the written consent of the joint apprentice committee.

8. The committee shall require that apprentices in the fourth and fifth years com-

plete the International Typographical Union Course of "Lessons in Printing."

#### PART VI-ACKNOWLEDGMENT AND EXECUTION.

In witness whereof, and in full attest of ratification by both bodies, the undersigned presidents, respectively, of the parties to this agreement have hereunto signed their names, attested by the secretaries of each organization, and committees duly authorized to act for and in behalf of the Employing Printers of Cleveland, Ohio, and Cleveland Typographical Union No. 53 hereunto set their official seals, duly attested this third day of March, 1922, to this contract, which is to be effective for the period of time as above set forth under the "duration" section of the contract.

## New York City.

FOR the purpose of establishing an orderly procedure for the renewal of all scale contracts and arbitration agreements promptly upon their expiration in 1922, the following memorandum agreement was entered into on June 9, 1922, between the closed shop branch, New York Employing Printers' Association and Printing Pressmen's Union No. 51, I. P. P. & A. U.; New York Press Assistants' Union No. 23, I. P. P. & A. U.; New York Job Pressmen and Job Press Feeders' Union No. 1, I. P. P. & A. U.; New York Paper Handlers' Union No. 1, I. P. P. & A. U.; Paper Cutters' Union No. 119, I. B. of B.; Bindery Women's Union No. 43, I. B. of B.; Mailers' Union No. 6, I. T. II

All contracts and agreements shall be worded as nearly uniformly as possible.
 Each union shall present to the closed shop branch, New York Employing Printers' Association, and the closed shop branch shall present to each union, on or before

June 15, 1922, a statement of demands for changes in such shop rules contract as may exist between that union and the closed shop branch, with the exception that the scale demands shall be submitted not later than August 1, 1922. All demands excepting scale demands shall be included in these first statements subject to modification in negotiations which shall follow.

3. Negotiations shall be entered into promptly following the interchange of demands and efforts made by each party with the other to conciliate the points of difference.

4. In case there is any dispute as to whether any point of difference is arbitrable, the question as to whether it is arbitrable shall be submitted to the international joint conference council not later than July 15, to be acted upon by the international joint conference council at its meeting on August 1. Any such points which the council rules are arbitrable shall then be submitted to the board of arbitration. Any points on which the council on August 1 fails to reach a decision, or any points which it does not consider, shall be referred back, without prejudice, to the parties to this agreement for action. All remaining points of difference which shall have been declared arbitrable either by the international joint conference council or by the parties to this agreement before August 15, 1922, are to be submitted in an agreed statement of facts to a board of arbitration.

5. If it appears to any party to this agreement on or after August 1 that arbitration of one or more points is inevitable, negotiations for the selection of the arbitration board shall be started immediately upon the giving of notice by that party to the other parties. These negotiations shall not interfere with the continuance of conciliation on

the points of difference until August 15, as specified above.

6. The board of arbitration shall consist of three men jointly selected by the disputing parties. Each union appearing before the arbitration board shall be entitled to three representatives, and the closed shop branch to an equal number of representatives for each case. The decisions of the board shall be binding without further recourse on all points covered therein, and on all parties to this agreement, and shall become effective on October 1, 1922, or upon the first full fiscal week after the decision

is rendered.

7. Negotiations for the renewal of arbitration agreements may be started at any time provided that they do not take precedence over or interfere with the above procedure for shop rules contracts. Arbitration agreements will be entered into or renewed by the closed shop branch and the undersigned unions at the earliest possible date following the renewal of the shop rules contract, and in case of failure of agreement upon the terms of the arbitration agreement the present arbitration agreement shall continue in effect over those firms which renew the shop rules and scale contract, pending the signing of a new arbitration agreement. Nothing in this paragraph shall be construed as abridging the right of either party to terminate the existing arbitration agreement on the date of its expiration by giving due notice as provided in the preamble of said agreement.

8. Any term or terms of this memorandum agreement may be altered only by mutual

9. It is understood that the undersigned union officials represent only workmen who are members of their respective organizations, and that the officers of the closed shop branch represent only those employers who are now operating under contracts with the respective unions, with the proviso that on or before August 1, 1922, a list of members of the closed shop branch who accept and will operate under the terms of the new contracts, will be submitted to the respective unions; those firms only, and new members of the closed shop branch, and such other firms as may accept prior to the decision of the arbitration board, shall be bound by the new scale and shop rules contract.

## CHILD LABOR.

## Industrial Home Work of Children in Rhode Island.

THE United States' Children's Bureau has recently published a report (Bureau Publication No. 100) on the industrial home work of children in Providence, Pawtucket, and Central Falls, R. I., during the year 1918, a year which is believed to represent, in this matter, normal conditions. It was found that 5,006 children under 16 years of age had worked at home on factory products during the course of the year.

Only 2,338 children were found, however, who were engaged in home work for more than 30 days during the year and received compensation. For the purpose of this study schedules were taken only for these 2,338 children, of whom 966 were boys and 1,372 girls. In the majority of these cases home work was not done continuously or regularly, but was begun, dropped, and resumed for varying periods. Of the other 2,668 children who were found to have done home work, 2,590 had worked for less than 30 days, 78 had worked for 30 days or more but had received no compensation, many of them assisting with home work at the house of a playmate or a contractor and receiving only some candy or perhaps a penny or two for their services, so they were not included in the study.

The 2,338 children with whom the study deals formed 3.5 per cent of the children aged 5 to 16 in the three cities. They were practically all native-born whites, only 11 colored families being included in the study. A large proportion were in the younger age groups. Of the 2,336 whose ages were learned, 45.7 per cent were under 11, the age groups 11, 12, and 13 furnished 40.6 per cent, and only 12.3 per cent were 14 and 15.

The work done varied widely, but for the most part consisted of simple repetitive hand processes.

The principal home occupations of the children, in the order of their importance, were carding snaps (dress fasteners), stringing tags, drawing threads on lace, linking and wiring beads, setting stones, working on military buttons, carding shoe buttons, finishing underwear, carding jewelry, and putting together chain fasteners. This work consisted of very simple processes constantly repeated. Ninety-one children, however, worked on machines.

To a considerable extent the children worked in the evening or at night. Only 373 were found who worked only in the daytime; 103 did night work exclusively, and 1,860 worked both in the daytime and at night. As factory laws do not apply to the home, there is no restriction on night work, and children were found who had worked up to 10, 11, and even 12 o'clock at night.

The reasons for doing the work, as given by the children's parents, and the number and proportion affected by each, were as follows:

	Number.	Per cent.
To relieve actual family need	412	17.6
To buy books and clothes	140	6.0
To supplement family income	103	4.4
To buy war savings certificates or bonds	75	3.2
To earn spending money	278	11.9
To help other home workers in family	736	31.5
To keep child out of mischief	187	8.0
Because friends or neighbors worked	362	15.5
All other	33	1.4
Not reported	12	. 5
Total	2,338	100.0

The first three reasons are taken to indicate definite economic need on the part of the families concerned. A study of the earnings of the fathers shows that this reason may have actuated even a larger proportion than the 28 per cent for which it is assigned, since in 10 per cent of the families the father was dead or had deserted, so that there was no income from that source, and in 27 per cent the father's earnings for the year were under \$850.

It was hard to get any idea of the children's earnings, since generally several members of a family worked together, and individual accounts were not kept. In fact, the family group was the customary working unit. The amounts earned by these family groups during 1918 were learned for 928 families, whose returns ranged as follows:

## Earnings of families from home work.

	Families	Per cent.
Under \$25	527	56.8
\$25 and under \$50	148	15.9
\$50 and under \$100	147	15.8
\$100 and under \$200		7.4
\$200 and over	37	4.0
	-	-
Total	928	100.0

The number of workers in these families ranged from 1 to 7 or over, in one case reaching 12. In only 7.3 per cent of the families was there but 1 worker.

Of the 76 home workers who worked all alone—all children, since only families in which there was a child worker were included in the study—51 per cent earned less than \$5 a year, 68 per cent earned less than \$10, and only two earned \$50 or over. Of the 249 groups of two workers each, 35 per cent earned less than \$10, 50 per cent earned less than \$20, and 22 per cent earned \$50 or over. Groups of 5 to 8 home workers earned in some instances less than \$10, and in a few instances they earned \$500 or more.

Home work was, in general, an intermittent affair. Only one-tenth of the families studied had handled home work throughout the year, and less than half had worked at it over four months. Of the group of children studied, less than one-half (43.6 per cent) were doing home work in December, 1918. The low pay was the reason most frequently given for stopping it, 363, or 27.5 per cent, of those who had discontinued the work giving this cause. In some cases the workers found they earned scarcely enough to pay for the gas by which they worked. Something over one-fifth stopped because

work was no longer available. Almost the same proportion stopped because of family reasons, and about one-eighth dropped it because the home work interfered with their school progress.

The report contains a study of the methods used by manufacturers for obtaining home workers and distributing work and gives their view of the advantages and disadvantages of home work. Specifically, they were asked why they used the system.

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Five chief reasons were reported by the 153 producers. Shortage of labor was the explanation most often given. The next most frequent explanation was saving in cost of production, either because home workers received lower wages than factory workers, or because of the elimination of overhead expenses—rent, light, heat, insurance, etc. The need for temporary help for seasonal or rush work was the third reason. Giving out home work was simply a custom, according to the statement of other manufacturers, while a number asserted that they were actuated chiefly by motives of charity.

As to whether a prohibition of home work would injure business, the manufacturers differed, 57 replying that such a prohibition would have some injurious effects, while 92 thought it would do no harm if applied to all.

The fact that a large majority of manufacturers reported that prohibition of home work would not harm their business, and that this majority included some of the larger distributers of home work, was one of the most significant findings of the study.

all artificial ages are a learned of 7 per cent were arrested as

- the first to get any idea of the children's attempts, the grantterm standars of a family worked together, and and individual weight and keeps, the family group was the anatomary

remain the amounts cannot by these terming groups during

Seeing Mand and 13 formuladed the percent, and only 13

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one works wast in general, an intermittent affair. Only one is the families studied band bandled house work then the families studied bad bandled house work them is to be at it over four months. Of the condition studied, has then another the per gent) were

are name work in December, 1918. The low pay was the renson frequently given for stopping it, 363, or 27.5 per cent, of those

the work of the work giving this cause. In some cases workers found they carned scarcely enough to pay for the gas

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# Employment in Selected Industries in July, 1922.

[The scope of this monthly report is being expanded to include a much larger number of industries and a proportionately larger number of manufacturing establishments. The plan for the expansion is not yet fully under way, but returns for July have been received already from approximately 1,000 of the newly added establishments. These returns, however, can not be included in the regular tables of this report until corresponding information for August is received for comparison. The full expansion planned, therefore, will first be in evidence in the October Monthly Labor Review, although wage changes reported by the newly added establishments, for the period June 15 to July 15, are presented with the changes reported by the establishments which have been making returns to the bureau for previous reports.]

THE Bureau of Labor Statistics received and tabulated reports concerning the volume of employment in July, 1922, from representative establishments in 12 manufacturing industries. Comparing the figures of July, 1922, with those for identical establishments for July, 1921, it appears that in 7 of the 12 industries there were increases in the number of persons employed, while in 5 industries there were decreases. The largest increase, 44.8 per cent, appears in the iron and steel industry. Car building and repairing shows an increase of 25.1 per cent and automobiles an increase of 21.5 per cent. Respective decreases of 26.4 per cent and 16.1 per cent appear for cotton manufacturing and silk.

Five of the 12 industries show increases in the total amount of pay roll for July, 1922, as compared with July, 1921; the remaining 7 industries show decreases. Iron and steel shows the greatest increase, 57.5 per cent, while for automobiles an increase of 18.2 per cent appears. Decreases of 32.6 per cent and 27.4 per cent appear

in cotton manufacturing and silk, respectively.

COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS IN JULY, 1921, AND 1922.

rolama USL &	Estab- lish- ments	ganixh		ber on roll.	Per	Amount	of pay roll.	Per cent of
Industry.	reporting for July, 1921, and July, 1922.	Period of pay roll.	July, 1921.	July, 1922.	cent of increase (+) or decrease (-).		July, 1922.	(+) or de- crease (-).
Iron and steel. Automobiles Car building and repairing. Cotton manufacturing. Cotton finishing. Hosiery and knit goods. Silk. Men's clothing. Leather Boots and shoes. Paper and pulp. Cigars and cigarettes.	110 42 56 59 17 60 45 43 36 77 77 53 54	month. week.		142, 721 109, 044 50, 110 44, 837 11, 311 30, 290 15, 739 28, 201 14, 974 58, 527 22, 691 16, 389	+44.8 +21.5 +25.1 -26.4 -9.7 +16.6 -16.1 -4.0 +13.1 +0.7 +16.5	\$3, 772, 352 2, 898, 614 2, 351, 014 1, 049, 054 277, 375 400, 909 797, 448 918, 820 293, 546 1, 341, 658 475, 635 304, 965	\$5, 941, 489 3, 426, 127 1, 878, 668 706, 844 227, 987 464, 087 578, 787 812, 771 322, 907 1, 292, 818 522, 726 304, 257	+57. 5 +18. 2 -20. 1 -32. 6 -17. 8 +15. 8 -27. 4 -11. 5 +10. 0 - 3. 6 + 9. 9 - 0. 2

<sup>&</sup>lt;sup>1</sup> A decrease of less than one-tenth of one per cent.

Comparative data for July, 1922, and June, 1922, appear in the following table. The figures show that in nine industries there were

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increases in the number of persons on the pay roll in July as compared with June and in three, decreases. Cigars and cigarettes show an increase of 6.2 per cent and cotton finishing an increase of 4.9 per cent. The three decreases are 7.8 per cent in car building and repairing, 5.6 per cent in hosiery and knit goods, and 0.9 per cent in iron and steel.

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When comparing July, 1922, with June, 1922, seven industries show increases in the amount of money paid to employees and five show decreases. The largest increase, 12.7 per cent, appears in men's clothing. Car building and repairing shows the greatest decrease—40.1 per cent.

COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS IN JUNE AND JULY, 1922.

ahadin Tarahada di Bust Moral Villa h	Estab- lish- ments	Period		ber on roll.	Per cent of in-	Amount	of pay roll.	Per cent
Industry.	report-	of pay roll.	June, 1922.	July, 1922.	crease (+) or de- crease (-).	June, 1922.	July, 1922.	creas (+) de- creas (-).
Iron and steel	108 40 54 59	I week i month. i week	142,652 104,889 51,699 44,615	141,336 106,619 47,661 44,837	-0.9 +1.6 -7.8 +0.5	\$6,673,450 3,405,112 3,071,000 690,467	85, 889, 278 3, 366, 115 1, 838, 207 706, 844	
Cotton finishing.  Hosiery and knit goods Silk Men's clothing.  Leather	17 59 45 47 35	1 week 2 weeks 1 week 1 week	10,778 29,567 15,691 28,083 14,133	11,311 28,015 15,739 29,177 14,598	+4.9 -5.2 +0.3 +3.9 +3.3	219, 395 487, 409 540, 870 747, 197 319, 161	227, 987 429, 569 578, 787 842, 344	+ 3 -11 + 3 + 12
Boots and shoes	79 53 56	1 week 1 week 1 week	57,747 22,309 15,709	59,270 22,691 16,680	+2.6 +1.7 +6.2	1,266,813 520,024 292,508	316, 529 1, 306, 582 522, 726 309, 017	+3

In addition to the data presented in the above tables as to the number of employees on the pay roll, 76 establishments in the iron and steel industry reported 103,013 employees as actually working on the last full day of the pay period in July, 1922, as against 103,388 for the reported pay-roll period in June, 1922, a decrease of 0.4 per cent. Figures given for 77 plants in the iron and steel industry show that 102,822 employees were actually working on the last full day of the pay period reported for July, 1922, as against 65,189 employees for the period in July, 1921, an increase of 57.7 per cent.

COMPARISON OF PER CAPITA EARNINGS IN JULY, 1922, WITH THOSE IN JUNE 1922.

Industry.	Per cent of increase (+) or decrease (-) in July, 1922, as compared with June, 1922.
Men's clothing	+6.7 +1.8 +.5 5
Iron and steel	-10.9 $-35.1$

npared low an 1.9 per repair. in iron

show show men's ease-

VE AND

Per cent of in-Crease (+) or de-Crease

 $\begin{array}{c} -11.8 \\ -1.1 \\ -40.1 \\ +2.4 \\ +3.9 \\ -11.9 \\ +7.0 \\ +12.7 \end{array}$ - .8 + 3.1

numn and on the 88 for cent. v that of the es for VE 1922.

Wage changes made between June 15 and July 15, 1922, were reported by various establishments in 5 of the 12 industries included in this report, and in 17 of the industries which are to be included in subsequent reports, and are presented in the following table:

WAGE CHANGES REPORTED AS OCCURRING BETWEEN JUNE 15 AND JULY 15, 1922.

ber of estab- lish-	Per cent of increase (+) or decrease (-).	Per cent of total em- ployees affected.	Industry.	Number of establishments.	Per cent of increase (+) or decrease (-).	Per cent of total em- ployees affected.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+10 +10 +10 +10 +10 +10 +8 +7.7 +5 to 10 +5 +4.5	100 99 98 80 50 96 100 65 100 40	Car building and repairing	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+10 -13 -13 -13 -13 -12.5 -12.5 -12 -12 -11 -10 -10 -9.2	5 100 90 70 62 100 96 100 95 93 92 94 100 99 90 69
1 1 1 1 1	+3 +3 +3 +3 +10	62 40 25 7 10		1 2 1 1	$ \begin{array}{r} -9 \\ -8 \\ -3 to 9 \\ +10 \\ +10 \\ +12 \\ +10 \\ +7.5 \end{array} $	97 100 100 100 33.3 70 100 90 66
		New in	dustries.			•
3 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+10 +10 +10 +5.3 -15 +12.5 -10 -5 +10 +8.5 +20 +16.7 +11.5 +10 +10	100 50 2 93 90 20 100 100 50 8 7, 5 90 5 20 33 100 35	Hardware	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+15 +16.7 +10 +10 +2.5 +8.5 +5 +12.5 +20 (6) +12.5 -10	20 65 100 20 100 15 20 100 66 8 100
	establishments.  1	Number of increase (+) or increase (+) or decrease (-).  1	Number of increase (+) or increase (+) or destablishments. (-).  1	Number   cent of   increase   cent of   cent of   decrease   (+) or   decrease   (-).     1	Num-   cent of   cent of	Number of eart of eart of increase (+) or decrease (-).

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## Government Construction Contracts.

ONTINUING the report on this subject in several preceding numbers of the Monthly Labor Review, the following table gives certain information relating to contracts entered into by the several departments or individual establishments of the Government as reported to the Bureau of Labor Statistics by these departments.

Entire puddle mill.

Entire puddle mill.

"Wage earners."

All common labor.

Time and one-half after 10 hours per day; double time on Sundays and holidays.

Do.

16, 795 Plumbing, Fort Benning, Ga.

Sub..... E. A. Jones Plumbing Co... do.....do.

CONSTRUCTION CONTRACTS ENTERED INTO BY THE VARIOUS DEPARTMENTS OF THE UNITED STATES GOVERNMENT.

Department	Con	Contractor.	Contract.	ţ.	Vactoria of constant	
contract number.	Name.	Address.	Date.	Amount.	Nature of contract.	Time limit.
Treasury.	es.		10 to		STATE OF THE PROPERTY OF THE PARTY OF THE PA	ed a
e di	S. Faith Co. (Inc.)	2427 Pennsylvania Avenue., Philadelphia, Pa.	July 7, 1922	\$311,000	Installing outside services and mechanical equipment at U. S. Veterans' Hospital, Jefferson Bar-	8 months.
	James Stewart & Co. (Inc.)	30	July 5, 1922	779,350	racks, St. Louis, Mo. Constructing 7 buildings at U. S. Veterans' Hos-	Do.
	Devault & Beitrick	Massillon Road, Canton, Obio	July 17, 1922	59, 817	pital, Jefferson Barracks, St. Louis, Mo. Constructing, post office and customhouse at	12 months.
200	J. B. Hopkins & Co	514 St. Paul Street, Baltimore, Md.	do	29,850	Apalachicola, Fla. Painting and finishing buildings at U. S. Veterans'	4 months.
	National Decorating Service. Engineering Structures Co	4927 Prairie Avenue, Chicago, III Call Building, San Francisco, Calif.	July 21, 1922 July 22, 1922	24,850	Painting at post office, Cincinnati, Ohio.	120 days. 150 days.
nli nli	Mosier & Summers (Inc)	1266 Seneca Street, Buffalo, N. Y July 19, 1922	July 19, 1922	78,000	Francisco, Calif. S. custombouse and post office at	10 months.
	Warner Elevator Mfg. Co		July 28, 1922	12,480	Buffalo, N. Y. Installing elevators at U. S. Veterans' Hospital.	120 days.
no br	Pearce Bros. (Inc.).			11.500	Tuskegee, Ala. Constructing new vestibule and installing wire	4 months.
i) ii)	R. E. Richardson & Co.	New York, N. Y. Bank of Commerce Building, Nor-		78,900	mesh at post office, Albert Lea, Minn. Constructing and equipping wing of Marine Hos-	
	W. C. Cornell Co	19 Patterson Street, N. E., Wash-	Aug. 5, 1922	25, 323	pital, Noriolk, Va. 1 Furnishing and installing mechanical equipment,	Do.
War.	nn	ington, D. C.			Wing of Marine Hospital, 1volous, va.	Aless S En Similar B F I
A	John R. Proctor (Inc.)	16 W. Ninth Street, Bayonne, N. J.	June 29, 1922	18,995	Installing underground electric cables for power	Oct. 25, 1922.
	Burgess & Davenport	Honolulu, Hawaii	June 28, 1922	98, 151	Constructing four hospital buildings at Schoffeld	Jan. 1, 1923.
	Contracting Co.	do	June 26, 1922	172, 402	Constructing reserve gasoline and oil storage tank	Apr. 30, 1923.
	(Lta.).	p.	do	20,875	Constructing underground conduit system, Scho-	Nov. 30, 1922.
	Batson Cook Co	West Point, Ga	do	4,986	neld Barracks, Hawan Territory.  Two ammunition magazines, Fort Benning, Ga	100 days from June
Principal	Hatter Transfer Co. (Inc.)	Hampton, Va	June 30, 1922 do.	12,949 157,298	Erecting 1 steel hangar, Langley Field, Va Constructing 20 officers' quarters at Fort Benning,	Nov. 7, 1922. 155 days.
Sub	W. A. Coates Construction		(%)	26, 476	Ga. Excavations and concrete work, Fort Benning, Ga.	Not reported.

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Do Do	180 days from July 5, 1922. 180 days. Do.	Do. 120 days. June 30, 1924.	o o o	240 days.	Do. 240 days.	120 days. Do.	150 days. Do.	120 days. Do.	150 days. Do.
Plumbing, Fort Benning, Ga. Heating, Fort Benning, Ga. Sheet metal work at Fort Benning, Ga. Electrical work at Fort Benning, Ga. Roofing at Fort Benning, Ga. Painting at Fort Benning, Ga.	004	Indianapous, Ind. Installing roofsat Fort Benjamin Harrison, Indianapolis, Ind. Construction steel ladder, pipe, gears, and shafting for U. S. dredge Gulfport, at Baltimore. Constructing conduit for water supply for Wash-	ington, D. C. do. do.	0.0	olls, Md. Remodeling marine barracks, navy yard, Wash-ington, D. C. For bulkhead, runway and beach, at naval air				station, Pensacola, Fla.  Extension to landing field at naval air station, Pensacola, Fla.  Constructing approach piers, navy yard, Philadelphia Pa.
26, 250 2, 400 2, 400 6, 500	36, 990 1, 400	3,027 23,364 745,887	394, 650 918, 188	248,500	22,700	8,800	19,077	15,327	29, 501
5066 <b>66</b>	June 30, 1922 (2) (2)	(2) July 24, 1922 July 26, 1922	do	June 22, 1922	June 23, 1922 June 21, 1922	June 19, 1922 June 23, 1922	June 15, 1922 June 12, 1922	June 15, 1922 June 17, 1922	June 22, 1922 June 26, 1922
op op op	541-543 Bankers Trust Building, Indianapolis, Ind. 912 North Hamilton Avenue., Indianapolis, Ind. Peoples Bank Building, Indian-	apous, Ind. 1024 Hume Mansur Building, Indianapolis, Ind. Baltimore, Md. Pier 2, Pratt Street, Baltimore, Md.	op Op	Vest Forty-second Street, York, N. Y. idelity Building, Baltimore,	Md. 1454 Monadnock Building, Chi. June 23, 19 22 1260, III. 816 Howard Avenue, New Orleans, June 21, 1922	Van Nuys Hotel, Los Angeles, Calif. 621 Georgia Street, Vallejo, Calif	1120 Pennsylvania Building, Philadelphia, Pa. 112 Cutler Building, Rochester,	173 South Palafox Street, Pensacola, Fla. 30 Church Street, New York, N. Y.	174 South Palafox Street, Pensa- cola, Fla. 1415 Fidelity Building, Baltimore, Md.
E. A. Jones Plumbing Co. T. T. Ray Walker Electric & Plumb- ing Co. C. W. Kinne	Todd & Reid R. H. Scott.	Hoolser Roofing Co  Ellicott Machine Corporations.	do.	G. E. Engineering Co. (Inc.). McLean Contracting Co	George E. Wright (Inc.) Doullut & Williams Co.	(Inc.). Ross Construction Co J. Pringle	Heine Boller Co	C. H. Turner Co	C. H. Turner Co
Sub- Sub- Sub- Sub- Sub-	Principal Principal	Sub Principal	Principal 3 Principal 3	4581	46234644	4651	45024584	4633	4645

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Sub.....do... Coates Construction .....do.....

1 Not including mechanical equipment.

2 Not reported.

\* Three contracts, each a part of same project.

CONSTRUCTION CONTRACTS ENTERED INTO BY THE VARIOUS DEPARTMENTS OF THE UNITED STATES GOVERNMENT-Continued.

Con Con	Лате.					
Con rior.		Address.	Date.	Amount.	Nature of contract.	
rior.			Terrar 11° 1085		The second of allies have been discussed in the second sec	an epitar
rior.	hanical Co	432 North Calvert Street, Balti-	July 8, 1922	9,230	Installing alternators and auxillary equipment at	145 days.
rior.	American Engineering Co	Aramingo Avenue and Cumber-	do	10,750	Installing Diesel oil engines at Navy mine depot,	150 days.
	Triest Contracting Corpora-	126 East Fifty-ninth Street, New	June 23, 1922	227, 520	Vorktown, va.  Underplinning aircraft storehouse, navy yard,	270 days.
rior.		648 Call Building, San Francisco,	June 24, 1922	129,000	Constructing oil and gasoline storage plant at	160 days.
	effgen	428 Timken Building, San Diego, Calif.	June 19, 1922	22,877	Cristobal and Coco Solo, Canal Zone. Constructing experimental landing platform at naval base, San Diego, Calif.	120 days.
The Vulcan	The Vulcan Iron Works	Denver, Colo.	July 17, 1922	6, 587	Turnout, radial gates; and hoists, Sun River, Milk	Oct. 29, 1922.
Fred Coolidge	Fred Coolidge	Laramle, Wyo. Lewistown, Mont.	July 24, 1922 July 26, 1922	66,548 27,796	Kiver, and Alamath projects.  Earthwork and structures, Sun River project  Laterals and wasteways, Nelson Reservoir and	Not reported. Dec. 31, 1922.
Fred Coolidge	986	Laramie, Wyo	July 28, 1922	66,548	Vandalia Canal, Milk River project. Contract No. 885, structures scheduled 12, 13, and 14. Specification 404, Greenfield's division. Sun	June 15, 1923.
Art Metal C	Art Metal Construction Co	Washington, D. C	July 5, 1922	10,536	I to install 18 steel cases, Pa	108 days.
Joseph A. Johnson.	opuson	Talihina, Okla	July 3, 1922	(3)	Unice building. Labor in constructing dairy at the Choctaw- Chickasaw Sanitorium, Talhina, Okla.	Within 90 days from beginning
Agriculture.	American Car & Foundry Co.	Jackson & Sharp Plant, Wilming- ton, Del.	July 1, 1922	69,926	To build and furnish 2 railway cars for Mine Rescue Service.	THE
Alabama: Smith Co. 115. 111. Doubert & Williams 92. Austin Bros. Co. 92. Vaughan & Davis. Sr. E. L. Barson. 26. Stanley & Singer. Arkansas: Credy Garner	Williams s, Co. Davis n inger	Birmingham, Ala. New Orleans, La. Atlanta, Ga. Montgomery, Ala. Birmingham, Ala. Lafayette, Ala.	July 25, 1922 July 20, 1922 July 19, 1922 do.	276, 421 215, 375 73, 764 157, 897 157, 056 25, 506	Road, gravel, Marion County.  Bridge, Marengo County. Bridge, Macon County. Road, gravel, Macon County. Road, gravel, Limestone County. Road, gravel, Cleburne County.	Not reported. Do. Do. Do. Do.

T. 1099 69 'AAO | Pood gravel and die Montrose County

Thelia Colo

Colorado: | Colorado de Hotobbin

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Do.

347,798 Road, plain concrete, Mississippi County.

Arkansas: 100..... Grady Garner..... Little Rock, Ark....... July 26, 1922

Do. Do.	ååååå	Do.	2000	2000		Do
Road, Road, Road,	Road, gravel, Fremont County.  Road, plain concrete, Pueblo County.  Road, plain concrete, Weld County.  Road, gravel, Mesa County.	Road, reinforced concrete, Bond and Fayette Coun-	Road, reinforced concrete, Maconpin County. Road, reinforced concrete, Cook County. Road, reinforced concrete, McLean County. Road, reinforced concrete, Woodford County.	Road, reinforced concrete, Clinton County Road, reinforced concrete, Marion County do Road, reinforced concrete, Hancock County	Road, reinforced concrete, Winnebago County. Road, gravel and dirt, Will County. Road, gravel and dirt, Clinton County.  Road, gravel and dirt, Carroll County.  do. Bridge, Clinton County. Bridge, Mason and Menard Counties. Bridge, Mason and Menard Counties. Bridge, Mason and Menard Counties. Bridge, Carroll County. Bridge, Counties. Bridge, Carroll County. Bridge, Doniphan County. Bridge, Doniphan County. Bridge, Carroll County. Bridge, Carroll County.	
62, 440 38, 129 36, 573	83,964 85,604 219,212 30,586	33, 769	7,006 181,816 138,516 66,796	76, 207 61, 378 99, 339	104 474 18, 55, 56, 88 18, 56, 88 18, 56, 88 18, 56, 88 18, 730 18, 73	139,814
July 7, 1922 do. July 21, 1922	dodo.	July 6, 1922	do do	do. do.	do d	July 25, 1922
Deita, Colo. Hudson, Colo. Denver, Colo.	Morrison, Colo.  Denver, Colo. do.	Effingham, III	Carlinwith, III. Oak Glen, III. Keokuk, Iowa.	Edwardsville, III. Casey, III. do. Keokuk, Iowa	Rockford, III. Chicago Heights, III. Carlyle, III. Auburn, III. Aomouth, III. Paris, III. Paris, III. Jacksonville, III. Rochester, III. Rockford, III. Leosatur, III. Jacksonville, III. Keokuk, Iowa. Hutchinson, Kans. Leona, Kans. do. Junction City, Kans. do. do.	
Giradet & Hotchkin. Lallier Construction Co Standard Engineering & Construction Co.	G. A. Allen. Ed. Lundsey. White & Johnson. T. L. Hoffman.	C. J. Moritz.	A. M. Boatma. Andrew Ward & Son. Cameron, Joyce & Co. Cameron, Joyce, Smith &	Jos. Kesel & Son J. W. Etchison Co. do. Keoknik Quarry and Con-	Structure Bros.  J. M. Pierson & Son.  Bernar Kiffmeyer.  Keating Bros.  Lod & Talbot.  do.  Zimrierly Bridge Co.  E. H. Piebe.  E. H. Piebe.  Rochester Bridge Co.  Ferenson Construction Co.  Ben F. Harrison  Illinois Steel Bridge Co.  Stilars & Son.  R. P. Harper.  do.  Zeigler & Dalton.  Thomas Co.	L. A. Lonstabot.
Colorado: 7C 189 189 168A	217. 226.A 208.A.	9Y	8Y-4. 42-161 26-17	34-26 35-17 35-18 40-29	41-16. 2-11. 33-27. 37-22. 38-27. 39-24. 39-24. 39-24. 39-27. 39-18. 37-22C. 6-K-1. 39-18. 37-22C. 6-K-1. 116D. 116D. 116B. 87. 116B. 116A. 116A.	Louisiana: 79

2 Not reported.

CONSTRUCTION CONTRACTS ENTERED INTO BY THE VARIOUS DEPARTMENTS OF THE UNITED STATES GOVERNMENT-Continued.

Department	Contrade Contrade	Contractor.	Contract.	ct.	The Carried and dist, throughout fourth	DA .
contract number.	Name.	Address.	Date.	Amount.	Nature of contract.	Time limit.
Gontinued.	Souther to Design	Property Restriction	400 X 1000		Brown want to a make positivity and the contra	660
Massachu- setts:	Fried Engineering Co	Gardnar Mass	Inly 5 1999	26.201	Bridge Barleshins County	Not warner to
9	Lane Construction Corpora- tion.	Meriden, Conn	July 11, 1922	116,553	Road, bitumen-macadam, Berkshire County.	Do.
91 84	Powers Bros. State Construction Co.	Brockton, Mass. Adams Street, Dorchester, Mass	July 18, 1922 do.	103,918	Road, bitumen-macadam, Middlesex County Road, bitumen-macadam, Worcester County	Do
88 63A 44CD	Calarno Construction Co J. V. McKeon Co Rockford Construction Co W. T. Hill	H : HH	July 11, 1922 do.	109, 974 94, 899 91, 522 43, 244	Road, plain concrete, Bay County.  Road, plain concrete, Lenswee County.  Road, gravel, Cheboygan County.	3 6 6 6 A A A A
72A	Michigan Asphalt & Paving	Flint, Mich	do July 12, 1922	21,768	Road, bitumen-concrete, Genesee County.	D0.
Minnesota.	C. A. Brown and I. Woodby	Beaverton, Mich	do	9,704	Road, plain concrete, Ogemaw County	. Do.
291 286	Larkin Construction Co Fielding & Shipley	Ortonville, Minn. St. Paul, Minn.	July 10, 1922	63,665	Road, gravel and dirt, Clay CountyRoad, bitumen-concrete, Ramsey County	Do.
168A 39 38 178A 198 118B	Carterville Construction Co. Gaines Bros. Co. O. J. Hannick. Allhands & Davis. Case & Killian. Novacolite Construction Co.	Carterville, Mo Fairland, Okla. St. Louis, Mo. Springfield, Mo. Marshfield, Mo. Marion, III.	July 13, 1922 June 30, 1922 do. June 20, 1922 June 5, 1922 July 26, 1922	36,678 82,919 112,158 50,426 31,259 45,870	Road, plain concrete, Jasper County. Road, gravel, Lewis County. Road, gravel, Stoddard County. Road, gravel, Laclede County. Road, gravel, Stoddard County.	ååååååå ååååååå
88.	Riley & Balley Construction	St. Louis, Mo.	July 18, 1922		Bridge, Pike County.	Do.
54	- do	фо	do	379,967	Road, macadam, Gentry County	. Do.
160C 70B 176 180 154A	J. E. Hilton. L. T. Lawber. B. P. Melchert. Faganstrums Bros. Toole County commissioners Rich & Markus.	Sheridan, Wyo. Butte, Mont Lewistown, Mont Great Falls, Mont Shelby, Mont	June 30, 1922 June 29, 1922 July 13, 1922 July 13, 1922 do.	71,436 94,710 22,008 28,008 88,875	Road, gravel, Yellowstone County. Road, crushed stone, Silver Bow County. Road, gravel, Cascade County. Road gravel, Toole County. Road gravel, Toole County.	00000000000000000000000000000000000000

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Do. Do.	ååå ååå		Do.	Do. Do.		Do.
Road, bitumen-concrete, Merrimack County  Road, reinforced concrete, Warren County  Road, reinforced concrete, Somerset County	Road, gravel and dirt, Valencia County. Road, concrete, Dona Ana County. Road, gravel and dirt, Grant County Road, gravel and dirt, Hettinger County. Road, gravel and dirt, Traili County	Road, brick, Allen County. Road, plan concrete, Hamilton County. Road, brick, Columbiana County. Road, brick, Ashland County. Road, plain concrete, Hamilton County. Road, brick, Jefferson County. Road, brick, Jefferson County. Road, brick, Auglaize County. Road, brick, Auglaize County. Road, brick, Auglaize County.	Road, gravel and dirt, McCurtain County	Road, plain concrete, Greenwood County	Bridge, Spink County.  Road, gravel and dirt, Aurora County Bridge, Lyman and Brule Counties. Bridge, Clark County. Bridge, Clark County. Bridge, Clark County. Bridge, Hutchinson County. Bridge, Tavel and dirt, Brown County. Bridge, Tadd County. Bridge, Tadd County. Bridge, Tadd County. Road, gravel and dirt, Todd County. Road, gravel and dirt, Todd County.	Bridge, Montgomery County
26,738 127,784 166,802	27, 850 6, 442 6, 442	104, 403 181, 335 182, 233 147, 331 124, 859 125, 410 233, 257 128, 566	548, 467	8,750	2, 543 30, 828 5, 336 6, 223 11, 652 14, 364 16, 084 18, 353 36, 292	196, 891
July 14,1922do	June 21, 1922 dododododo	June 16, 1922 June 23, 1922 do. do. June 30, 1922 June 23, 1922	July 11, 1922	July 18, 1922	July 11, 1922	July 14, 1922
Concord, N. H.  Easton, Pa.  Philadelphia, Pa.	Omaha, Nebr El Paso, Tex. Clovis, N. Mex. Mott, N. Dak Buxton, N. Dak Hilboro, N. Dak	Bluffton, Ohio. Cincinnati, Ohio. Youngstown, Ohio. Ashland, Ohio. Englewood, Ohio. Steubenville, Ohio. Lima, Ohio. Circleville, Ohio.		Greenwood, S. C	Redfield, S. Dak. Murdo, S. Dak. Des Moines, Iowa. Murdo, S. Dak. Des Moines, Iowa. Aberdeen, S. Dak. Des Moines, Iowa. Pierre, S. Dak. Chadron, Nebr. Kadoka, S. Dak.	Nashville, Tenn
Colburn Construction Co  Bernard E. Tighe Construction Co.  Engineering Construction Corp.	Peterson, Shirley & Gunther Lee Moore Construction Co C. E. Mauldin	action Co fruction Co iruction Co d	John W. Rooke	J. F. Blankenship. Greenville Paving Co	A. I., Waite. R. P. England Federal Bridge Co. F. P. England Iown Bridge Co. Burke & O'Rourke. Federal Bridge Co. C. J. Wheelook W. T. Morrissey. E. C. Pettrjohn.	Gould Contracting Co
New Hamp- shire: 143. New Jersey: 30B	North Da- kota: 37CD	Ohio: 250. 188. 188. 288. 285. 235. 213.	Oklahoma: 40. South Caro-	174B 174A South Da-	85.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6	1 ennessee: 16

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Lib...... Rich & Markus...... Missoula, Mont......do.....do...... 28,875 Road, gravel, Granute County.....

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CONSTRUCTION CONTRACTS ENTERED INTO BY THE VARIOUS DEPARTMENTS OF THE UNITED STATES GOVERNMENT-Concluded.

Department	O	Contractor.	Contract.	et.	Coff attaches and contact to the second	i
contract number.	Name.	Address.	Date.	Amount.	Nature of contract.	Time limit.
A griculture— Concluded.	A Military School Schoo					
Texas: 170	Hoden & Austin Harris & Powell	Houston, Tex. Marlin, Tex	June 26, 1922 June 30, 1922	129, 992 98, 365	Road, bitumen-macadam, Fort Bend County Road, surface-tarred macadam, Tom Green	Not reported.
266	R. W. Colezlainer	San Antonio, Tex.	July 11, 1922	88, 108	County. Road, bitumen-macadam, Karnes County	Do.
284 1830 135	Smith County. R. G. Buckner & Son. Schleicher County.	Tyler Cleburne, Tex Eldorado, Tex	July 21, 1922 July 12, 1922 July 21, 1922	229, 094 48, 528 7, 279	Road, plain concrete, Smith County. Road, gravel, Gonzales County. Road, macadam, Schleicher County.	0000
135 tah: 9A	Johnson, Gillespie & Adam- Toole, Utah.	Toole, Utah	do	26, 359	Road, gravel and dirt, Millard County.	Do.
15	Adams-McFarland Con-	Cedar City, Vt.	do	56, 287	Road, gravel, Iron County	Do
96	Johnson & Badger. Matthews, Barnes & Wrath-	Holden, Utah.	do.	24, 538	Road, gravel, Millard Countydo.	Do
7	Meadow Construction Co	Meadow, Utah Kanosh, Utah	do	40,325	op	Do.

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# Employment in New York State Factories in July, 1922.

THE industrial commissioner of New York reports in a recent press release that despite a reduction of 60 per cent in employment in the railway repair shops in the State in July, 1922, as compared with the previous month and the closing down of numerous textile mills for vacations, the employment level for July was as high as that of June. In view of the fact that there is usually a decrease in manufacturing in July, this unchanged volume of employment indicates improved business conditions in various industries. The greatest increase in employment was the seasonal rise in the manufacture of food products. In fruit and vegetable canneries the number of employees

nearly doubled.

Substantial increases were reported in pig iron and steel mills, in the manufacture of structural iron, elevators, agricultural machinery, telephones, wireless equipment, train lighting systems, and other electrical goods, automobile tires, wooden and paper boxes, and felt hats, and in establishments making crackers and biscuits. Employment also rose in factories making railroad equipment and in the manufacture of aluminum and brass goods, builders' hardware, firearms, cutlery, in automobile factories, except those making the more expensive cars, in women's cloak and suit factories, in men's clothing factories, although a few were shut down for summer vacation, in up-State boot and shoe factories, in leather manufacture, in cement and plaster mills and establishments making graphite and abrasives.

Volume of employment decreased in stovemaking and in the fur industry, because of strikes; in silverware manufacture and in soap factories, on account of summer vacations; in women's dress and waist shops, in modistes' shops, in straw-hat manufacture, and in dyeing establishments, due to a seasonal decline; in silk mills and

knit-goods factories, due to annual summer shutdowns.

# Industrial Coordination-The Solution of the Unemployment Problem.

THE costliness and inadequacy of partial measures in dealing with unemployment are stressed by Mr. G. Frank Beer, former member of the Ontario Royal Commission on Unemployment in his article on "Employment—a problem of coordination," published in the July, 1922, issue of the International Labor Review

(Geneva).

Labor's insecurity of employment Mr. Beer regards as the most important problem of industry at the present time since all the other problems, he considers, could be speedily solved if continuous employment were assured to the workers. He agrees with those who hold that the basic cause of the present industrial depression is "the lack of an effective demand for the goods which idle labor and idle capital are able to produce." The increasing number of those bent on scrapping the present industrial system should, the writer thinks, expedite the search for a thoroughgoing and permanent solution of the problem of unemployment. The worker's "fear of being out of a job is one of the most destructive elements in industry to-day," and

responsibility for this condition, he believes, must be borne by the

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business managers who control the volume of production.

It is pointed out that production for the community has expanded into production for the nation and for the world, and that the need for the highest grade ability in organization and management is becoming imperative. The complexity of the present-day problem lies mainly in the determination of the forms of production and in the finding of markets. If the unemployed were at work they would create a market for their own output. The successful marketing, however, "of that portion of all output which is in excess of the workers' own normal requirements seems to control the marketing of the whole. If this marginal marketing is not provided for, the market price of the whole product may be so lowered as to make it unprofitable for em-

ployers to start the factories."

The workers, whether employed or unemployed, must still have food and shelter. They must live either on their savings or by some form of unemployment relief. From this the writer concludes that labor's demand on capital is only slightly less when idle than when employed. Machinery still stands when workers are unemployed although it ceases to move. Rent, insurance, interest on borrowed capital, and numerous other overhead expenses remain the same. There is, therefore, "no automatic economy or readjustment to be effected by a period of unemployment except only in regard to new raw material, the supplies of which can be countermanded or restricted." The argument is put forth that if the marketing of the "marginal production" referred to above could (through the improvement or creation of facilities) be permanently insured and consequently insure the possibility of paying for further raw material, at least, of the obstacles to greater continuity of production would appear to be removed." It is suggested that Government cooperation would be well warranted in supplementing private enterprise in an undertaking nationally so important.

Uncertainty concerning market prices is possibly one of the most direct contributory causes of employment fluctuations. Consequently any stabilization of prices tends toward the establishment of employment equilibrium. Price stabilization, however, must be preceded by the standardization of production. Industry should definitely aim to standardize its products. Admitting that complete standardization is not possible, the author holds, nevertheless, that even a few fixed standards would have far-reaching results. The standardization of terminology would in itself be of considerable assistance in many cases in informing prospective buyers as to real values. Lumber standards have already been set up, which are internationally observed and which have proved tremendously important

in international trade.

The regularization of the volume of production would also prevent sharp peaks and depressions in the demand for raw material. Some establishments have already accomplished much in the way of regularizing employment. The author thinks it would be well worth while to try similar stabilization experiments for whole industries "If a new and better organization of industry is demanded, it can be created."

The foregoing considerations suggest the need for a deeper know-ledge of "the interplay of the various forces governing employment and distribution; for production is not a single and unrelated activity; in the last analysis it may be found that distribution is the controlling factor. Too much attention is being given to effects; too little study to causes.

According to the article, employment will never be stabilized until management, labor, capital and credit, transportation facilities, and Government policy are brought into alignment. All these elements "determine, maintain, and direct production." The writer favors the creation of permanent advisory councils to consider plans embodying from a national viewpoint the proper working relations of these various forces. He adds:

It is fluctuation of control that makes necessary the creation of a medium through which adaption and coordination may be continually advocated or exercised, for with changing conditions the relative control of these forces will vary. With the experience gained by such councils other and better plans may be suggested, but in the meantime something will be accomplished by bringing together much valuable information now disconnected and unrelated. The issue is a national one, and can be dealt with constructively only by an unprejudiced weighing of the interests involved and a reasonable subordination of individual advantage to a great national objective.

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# VOCATIONAL EDUCATION.

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Work of Federal Board for Vocational Education, 1920-21.

IN ITS June, 1922, news letter, the National Society for Vocational Education reviews the work of the Federal Board for Vocational Education since 1916.

It is stated that prior to the passage of the Federal vocational education act, only seven States had enacted laws recognizing vocational education as a part of the public-school program. Before January 1, 1918, every State in the Union had accepted the provisions of the Federal act. In 1916, Wisconsin and Pennsylvania were the only two States having compulsory part-time or continuation school laws. "As a result of the influence of the Federal act \* \* \* 21 States now have compulsory part-time education for the working children from 14 to 16 or from 14 to 18 years of age."

The following table shows the development of the vocational

education work since 1917–18:

NUMBER OF VOCATIONAL SCHOOLS FEDERALLY AIDED, AND ENROLLMENT, 1917-18 AND 1920-21.

Type of school.	Number of schools aided.		Enrollment.		Enrollment in teacher-trainin courses.	
appear to be communed.	1917-18	1920-21	1917-18	1920-21	1917-18	1920-21
Agricultural Trade and industrial Home economics General continuation.	609 1 809 323 (2)	1,735 849 884 428	15,453 1117,934 30,770 (*)	43, 131 96, 629 63, 363 119, 905	1,534 1,101 3,319 3,635	3, 266 6, 800 4, 94 3 34
Total	1,741	3, 896	4 164, 186	323, 028	6, 589	15,35

Includes also general continuation schools.
 Included with trade and industrial schools.
 Not classified.
 This number is not the correct sum of the items but is as given in the report.

The expenditure for these schools increased from \$2,683,777 in 1917-18 to \$10,649,852 in 1920-21. Of the amount spent in 1921, \$2,380,354 was contributed by the Federal Government, \$3,086,680 by the State governments, and \$5,182,818 by the local authorities.

For the past year and a half the Federal Board for Vocational

Education has administered the act providing for the rehabilitation of persons disabled in industry or otherwise. Thirty-five States have of persons disabled in industry or otherwise. Thirty-five States have now accepted the provisions of the act. "Vocational rehabilitation of persons disabled in industry, or otherwise, as an organized social movement has been established on a nation-wide basis. The States have taken up the service as a permanent work. Their organizations are expanding rapidly and consistently, and their services are being conducted on a sound practical basis."

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It is stated that on July 1, 1921, the States had a "live" roll of a little over 3,000 cases, but by November 15, 1921, the number had increased 265 per cent. Although no formal report has been received by the board since that time, reports by Federal agents indicate that at the present time there is a live roll of about 12,000 cases.

The exact number of persons in need of retraining is not now known but compensation authorities estimate that there are 280,000 disabled persons from industry in the country at the present time, which number is being increased at the rate of 15,000 per year. In addition to this number incapacitated by the accidents in industry, there is perhaps an equal number disabled by street accidents, train accidents, accidents on the farms and in the homes.

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The rehabilitation of disabled soldiers of the World War is one of the tasks of the vocational education board. The report states that while this problem "was undoubtedly one of the most difficult ever faced by a board or bureau," up to August 15, 1921, a total of 116,298 disabled soldiers, sailors, and marines had accepted and entered upon courses of training under direction of the board.

# Training of Apprentices in the Government Printing Office.

A PPRENTICESHIP courses for the training of printers, pressmen, plate makers, bookbinders, and machinists have been undertaken by the Government Printing Office, Washington, D.C. Admission is restricted to persons of from 16 to 20 years. On March 22, 1922, a special examination for the applicants was held by the Civil Service Commission, and the classes opened on July 23, with an enrollment of 23 students. It is announced that "every opportunity will be given the student to ground himself thoroughly in his chosen trade."

According to the printed outline of courses offered,¹ the printing course will cover four years, divided into 11 periods varying from one month to a year. During the first period the student will learn the types, rules, and slugs, and their uses, during the second period how to set and tie type, and during the third period how to take the proof and distribute the type. Bookwork, job work, making up, imposing, and tabular work are taught in the fourth to eighth periods. The ninth period is devoted to instruction in the operation of the linotype and monotype machines, the tenth to proofreading, and the eleventh to a review of all the previous subjects, during the course of which the student will acquire the "finishing touches necessary to the skilled artisan." During the first year the apprentices will be detailed, two at a time, first to the job press section where they will be taught to feed, oil, and clean a press, and then to the proof room, where they will act as copyholders.

The pressman course covers four years of study, during which time the student will learn pressfeeding, press preparation, the makeready, qualities of ink and grades of paper, and the adjustments of the mechanism of platen and cylinder presses, and will learn to

operate the web and Harris presses.

<sup>&</sup>lt;sup>1</sup> Government Printing Office. The training of apprentices in the Government Printing Office. Washington, 1922.

The plate-making course is divided into three sections requiring four years each: Electrotype finishing, electrotype molding, and stereotyping. The remaining courses planned—bookbinding and the machinist course—also require four years' study each.

During the period of apprenticeship the apprentices will, it is announced by the Civil Service Commission, receive the following rates of pay: For the first year, one-third of the rate received by mechanics of the trade to which the apprentice is assigned; for the second and third years, one-half of the rate; and for the fourth year, two-thirds of the rate.<sup>2</sup> Tests will be given from time to time and, upon completion of the course, the graduates will be eligible for employment as journeymen in their fields.

The constant aim in the courses, it is stated, will be to "develop a craftsman who will be an honor to his Government and a credit to the trade."

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<sup>&</sup>lt;sup>2</sup> The rate now paid to journeymen printers, pressmen, and bookbinders is 75 cents an hour, and to electrotypers, stereotypers, and machinists, 80 cents an hour.

# HOUSING.

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Report on Conditions in the Building Industry in New York.

THE Joint Legislative Committee on Housing of New York State, appointed in 1919, has published an intermediate report, bringing the account of its activities up to the early part of this year. The report briefly reviews the authorization and organization of the committee, summarizes its earlier recommendations as to rent laws, remission of taxation on new housing, and the like, gives data as to the actual shortage of housing in New York City, and then deals at length with some of the causes leading to this condition. The shortage of dwellings is held to be serious.

In 1910 when the population of the city was 4,766,833 there were 844,599 apartments available in New York City. In 1917 when the population was 5,276,351 there were 981,843 apartments available, being an increase of 134,249 apartments to meet an increase of approximately 624,034 in population.

crease of approximately 624,034 in population.

The population in Greater New York as of July 1, 1921, is estimated at 5,734,613, and there were then only 982,771 apartments available, or an increase of only 923 apartments to meet an increase of 342,696 in population. \* \* \*

From 1910 to 1917 an average of 24,922 new apartments were built each year. From 1918 to July 1, 1921, the following construction in dwellings took place:

	Number of apartments.
1918	 5, 706
1919	 1, 624
1920	
July 1, 1921	 1, 183

This shows an average of 3,643 new apartments constructed in the postwar period, so that the gross construction fell behind 73,832 apartments. The gross construction in three and one-half years fell behind 4,034 more than the net construction which, as above stated, fell behind 69,797. All these calculations are based on official figures showing a shortage of nearly 70,000 houses on July 1, 1921.

The greatest need in New York, it is found, is for tenements which can be rented at from \$8 to \$10 a month per room. Such tenements have not been built because at the prevailing cost of construction these rents would not give an economic return upon the investment.

# Unfair practices.

THE committee undertook to see whether the prevailing cost was justified, and the present report deals with some of the wholly unjustifiable factors which they found at work to increase or maintain prices. Briefly, they discovered fraud and extortion and illegal practices on every hand, all tending to raise the cost to the builder or owner. They found fraud and extortion practiced by certain labor union officials; they found unfair practices and requirements on the part of labor unions; they found combinations of employers and contractors to manipulate bids and prevent competition; they found combinations of producers and dealers to restrict supply and keep up prices.

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In almost every branch of the many activities which enter into building construction we found these combinations rampant and unchecked and competition completely throttled. The result was accomplished by all manner of devices, from the flagrant matching of bids and illegal combinations between employers' and employees associations, to the surreptitious agency of the apparently innocuous luncheon club under cover of which production was regulated, territory apportioned, and prices fixed between ostensible competitors. \* \* \*

We find that throughout the length and breadth of the country producers are combined with producers; manufacturers with manufacturers; dealers with dealers; workingmen with workingmen. Not only do these combinations extend horizontally between the members of the same class, but vertically from the members of one class

to those of another.

There are combinations between the manufacturers and the dealers; between producers and manufacturers; between dealers and unions of workingmen, so that the whole industrial and commercial system in the industries connected with building construction is riveted in an interwoven and interlocking crisscross of combination and obligatory arrangement. Competition in price and output of these essentials is held under the incubus of a pyramid of combinations extending from the workingman and the retailer and reaching its apex in the original producer. \* \* \*

and the retailer and reaching its apex in the original producer. \* \* \*

The cost of construction of buildings in recent years has been grossly and unconscionably inflated to proportions largely in excess of what should be the real cost by reason of the widespread elimination of competition among manufacturers, jobbers,

contractors, and retailers in every branch of the industry.

The immediate and obvious purpose of the combinations is, of course, to raise or to maintain prices by eliminating competition, but they have also evolved a number of other devices for increasing costs to those outside and profits to those inside their organizations. One effective plan was the use of two wage schedules, one representing the wage rate agreed upon between the employers' association and the union, and the other the rate at which customers were to be charged for labor. Some instances of the difference in these two schedules is given in the case of one association.

The schedule is a long one, but the following illustrates the extent

of the extortion thus practiced:

The association was to pay to union workers—
Foreman cutter and helper, \$16; charge to the customer, \$28.
Polisher, \$8.50; charge to the customer, \$13.75.
Helper, \$7; charge to the customer, \$11.25.
Foreman, \$10; charge to the customer, \$16.25.

This particular form of extortion was practiced by a number of associations. Another effective device was to insist that builders or contractors must buy their labor and material from the same source.

In other words, a builder could not employ a tile setter directly from the union. He had to get him through a contractor, and in order so to obtain him he had to give to that contractor the furnishing of materials connected with the setting of the tile, grate, or mantel.

Another device was an agreement between members of an association that under certain conditions no member would handle any job which had been begun by another. Sometimes this took the form of a provision in the constitution providing that if a member notified the association that he had not received the full amount due him for work no other member might do any work on the job except with the written permission of the first.

It is not necessary for a member to file a lien against the building, or that he should have a lawful claim. His mere contention that the owner or contractor owes him money, if he chooses to exert it through the association, compels the owner or con-

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ould him connactor to comply with his demands whether founded or unfounded. Until they are omplied with the work simply stops.

One effect of this arrangement was that "the member would be ble to charge anything he pleased for additional work. If the owner

id not like his charges, the work would remain undone."

An entirely different practice is that of some of the large steel prolucing corporations, which, as a method of establishing the open thop not only in their own plants but in every building job in which tructural steel is used, refused to sell fabricated steel to any builder or contractor in the New York district who would not erect it on the open-shop principle:

Expert evidence on this subject shows the extent to which the maintenance of his policy is reflected in the cost of construction. Officers of the —— Construction (0, and the —— Co. say that by doing their steel erection work themselves by killed union labor which is more efficient than nonunion labor they could save large mass in the cost of construction. Because of their inability to buy steel f. o. b., hese important operators have been obliged to keep their expensive erecting equipment idle and to sublet the steel erection to a member of the Iron League to whom slone the fabricators would sell the steel for erection in the city of New York, and through whom alone they will permit it to be erected.

## Prosecutions.

ALL these practices are easier to discover than to punish or to suppress. The report comments on the inadequate machinery in both State and Federal courts for the enforcement of laws against conspiracy in restraint of trade. Both State and Federal authorities have promised active cooperation in the effort to break up the objectionable practices, but they have neither the men nor the means for the extensive prosecutions needed. Consequently, the results obtained are small in comparison with the amount of fraud uncovered. So far, indictments have been secured against 416 individuals and 250 corporations; fines paid by those who pleaded guilty and have been sentenced, total \$550,000; 29 persons have received prison sentences ranging from 1 day upward, only 1, however, being longer than 6 months, and in the case of 32 others, prison sentences were suspended.

# Financial Aspects of the Housing Problem.

TURNING to the financial side of the situation, the report emphasizes the part which the changed attitude of insurance companies has played in restricting building. It is stated that one of the chief causes leading to the housing shortage has been the withdrawal of funds of the insurance companies from the loan market, with the notable exception of one company, "which has for some years past been the main support of the loan market and the chief encouragement to building operations." This cause was operative particularly through the years 1915 to 1919, inclusive, the tendency being for both life insurance companies and banking institutions "to decrease the proportion of their resources invested in mortgage loans and to correspondingly increase their investments in bonds, stocks, and other securities." The commission considers the change in policy regrettable both because of its effect on the building industry, and because stocks and bonds have not proved as safe investments as the real estate loans.

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Another cause of difficulty has been the practice of insurance companies, savings banks, and other lenders of money of imposing unusual and onerous conditions on loans made during this period Larger returns on loans were secured by three different methods:

 By the exaction of large bonuses for making the loan.
 By compelling the borrower to accept as part of the loan real property generally unmarketable at high values, or United States Government bonds at par when they were selling far below par and could have been duplicated by the lender at the the market price.

3. By compelling the borrower to transfer his property to a corporation in order to

avoid the usury law, since corporations are not permitted to plead usury.

Instances of these practices are given, showing how the actual cost of a loan to a borrower was run far above its nominal interest rate. The result was to discourage would-be owners and builders, who saw the price of money, as well as of labor and materials, raised to almost prohibitive figures by such practices. One insurance company and one savings bank are singled out for commendation because of their refusal to join in these practices and their continued policy of encouraging home owning and home building through their mortgage loans.

### Recommendations.

THE report closes with a review of the work still to be done by the committee, and a number of recommendations for legislation. Some bills dealing with the administration of the rent laws are proposed, and one bill is suggested for amending the antitrust law of the State by inserting a proviso that when anyone is convicted of violating this law, "it shall be made compulsory upon the court to impose a prison sentence of not less than three months or more than one year" in addition to any fine which may be levied. A memorial to Congress is recommended, calling for a similar addition to the Federal antitrust laws, and for an enlargement of the powers of the Federal Trade Commission. Some other recommendations touch upon investments of insurance companies and stricter supervision of their finances and investments, and finally the report urges the passage of a bill permitting insurance companies, under certain circumstances, to build, own, and manage tenements which are to be rented at not more than \$10 a month per room. It will be recalled that this bill was passed in April, and that the Metropolitan Life Insurance Co. at once undertook the construction of such tenements in Greater New York.

# Housing for Employed Women in New York City.

7N 1915 the Young Women's Christian Association made a study of living conditions of employed women in New York City, dealing especially with the accommodations open to them in the way of rooms or apartments, if they were not living with their own families. The Bureau of Social Hygiene has recently made a survey 2 for the

<sup>&</sup>lt;sup>1</sup> Monthly Labor Review, May, 1922, p. 165. <sup>2</sup> Bureau of Social Hygiene (Inc.). Housing conditions of employed women in the Borough of Manhattan. New York, 1922.

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purpose of bringing this study up to date. Data were secured by direct inquiry from organized homes and from various rooms registries which made a specialty of rooms for women, and by questionnaires from 9,460 employed women who were reached through their employers. The survey deals especially with organized homes for women, the work of rooms registries and the rental of the rooms supplied, and with the kind of housing secured and preferred by the women who answered the questionnaires, together with the rents they naid.

Organized homes are defined as "boarding houses for self-supporting women and girls, whose object is not commercial, and which furnish a certain amount of social life and supervision to the residents." Of these, 58 were found in the Borough of Manhattan, with accommodations for 4,417 persons. Practically every home was full to its utmost capacity, and most of the homes had long waiting lists. "Several had a list so long that their directors refused to add any more names." The cost of living in these homes had shared in the general increase since the date of the earlier study.

In these homes the change in prices is as follows: The prices for a room and usually two meals a day and three on Sunday in 1915 ranged from \$1.50 to \$12 a week. The prices for the same in 1921 range from \$4 to \$17. This is an increase of 166 per cent in the minimum and 41.6 per cent in the maximum rates.

In spite of this increase the rates of the homes are still lower than those for similar accommodations elsewhere, owing to the facts that the homes are rarely self-supporting and that they never try to make a profit.

The result of these two factors is that the residents in an organized home, although they may not get better room and board than they could get elsewhere for the money, at least get better parlors and opportunities for recreation and many of the advantages of a club at a price for which they could not possibly buy them elsewhere.

Most of these homes have restrictions upon admission. Sometimes the home is conducted by a religious organization, which naturally prefers residents of its own faith. Most homes are intended for young women, and quite commonly the age limit for admission is fixed at 30 or 35. Some have wage restrictions, refusing to admit those earning above a specified sum a week. In spite of these limitations, the homes do not begin to meet the demands of those qualified to enter. The questionnaire sent out to employed women, selected on no principle except the ability to get the questionnaire before them, showed that of nearly 9,000 reporting on where and how they were living, only 1 per cent were found in organized homes, but that a much larger percentage would prefer such homes if they could get in. This preference diminished, however, as the women rose in the occupational scale. Of 1,109 business and professional women replying, only 3 per cent wished to live in organized homes, while of 5,857 employed in offices, stores, factories, and trade schools, 23 per cent looked upon such homes as the most desirable form of housing. report raises the question, however, whether it is desirable to meet this demand.

Whether as a large economic problem it is well to accustom girls to a scale of living for which they can not pay and which they can not keep up after marriage; or whether, if on a large scale, homes are established that accommodate women for less money than commercial establishments could afford, it would not tend to depress women's

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wages, are fair questions. Perhaps an ideal plan would be to furnish the very best accommodations that could be secured for a price within the reach of the class in mind, and still yield from 5 to 10 per cent on the investment of capital. Whether this can be done at the present cost of building without interesting philanthropy to present the original building is doubtful.

The study of rooms registries showed that there were nine which specialized in rooms for women. In general, these all have the same purpose—that of listing rooms to which a woman may go with an assurance that her surroundings will be healthful and absolutely safe. Several restrict their work to special groups. The Columbia University Board and Room Direction, for instance, is for the use of Columbia students only, while the Travelers' Aid Rooms Registry limits itself to handling rooms for transients. Several others had been established only a short time or did not keep detailed records.

The only rooms registries whose records extended over a considerable period and had been kept with sufficient completeness to make a statistical study worth while are those of the Young Women's Hebrew Association and the Young Women's Christian Association. We chose the central branch and the colored branch of the latter as typical of the work done by that organization.

The rooms listed by these agencies showed a wide range in price. The central branch of the Christian Association reported on 6,730 rooms in which it had placed girls and women from January 1, 1920. to April 1, 1921, giving the rental of the room without board. The lowest rate was \$2 a week (only 9 rooms were as low as this), the highest was \$31, the mode was \$7, and the average \$7.85. Not far from one-third (30.5 per cent) were rented at \$7, but under \$8 a week, and one-fifth at \$8 but under \$9. The next largest group, 937, or 13.8 per cent, were \$10 but under \$11; only 247 (3.7 per cent) were under \$5 a week. The range of rentals for colored women was not so wide. Of 386 rooms in which they were placed, the lowest rent was \$3 a week, the highest \$12, the mode \$5, and the average \$5.86. Only 6 rooms were furnished at \$3 and only 52 at \$4. It is suggested that the amount of overcrowding in Harlem shuts out the cheaper rooms which would otherwise be available for colored women. For the rooms reported by the Young Women's Hebrew Association, the lowest rent was \$1.50 a week, the highest was \$20, the mode was **\$3**, and the average **\$4**.09.

These registries are used by women of all classes. The Young Women's Christian Association had records of the occupations of 7,876 women whom it had placed in rooms during the period covered. The applicants ranged from day workers and low-grade domestics up to artists, religious workers, business women, architects, lawyers, etc. The Young Women's Hebrew Association did not include domestic workers of any grade, but with this exception its list of occupations was as varied.

The value of the registries is evident; on the one hand they give the roomer some choice of places to live and protect her from dangerous or undesirable surroundings, while on the other they protect the respectable landlady against undesirable roomers.

By making it possible for self-respecting apartment owners or renters to get a decent and fairly congenial class of roomers, and so be willing to accept lodgers, they practically create more accommodations. By investigating rooms and landladies and keeping in touch with them they make the rooms much more available to the stranger and keep the rooming house industry fairly steady. Incidentally they are able to give a great

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Price. 6,730 1920, The b), the ot far \$8 a 9, 937,

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eping keep great eal of valuable advice to young women who do not know the city and who need irection.

The importance of the registries leads to a discussion of their costhose dealt with in this survey are noncommercial in character.
he Christian Association registry, for instance, makes no charge to
pplicants for rooms, charges landladies who wish to register rooms
he association maintains six registries in different parts of the city.
The year 1920 it is calculated that the cost of maintaining this
ervice amounted to \$2.48 for each known placement, and to \$1.16
her applicant for a room. The number of applications is always
huch larger than the number of known placements, partly because
hany fail to report to the registry when they take a room to which
hey have been sent. Thus, in 1920, the number of applications was
5,540, while the number of known placements was 7,285. Considring this fact, the cost per applicant is considered the fairer basis of
alculation.

The report raises the question of the relative value of organized omes as compared with rooms registries. The registries are not pen to the economic objections brought against the homes, and their ervices are more widely effective.

Organized and subsidized boarding houses for girls are not sufficiently numerous to neet the need of protected housing for unattached girls in a great city like New York. Even with the high cost per placement, or even per applicant, of the rooms registries is a fair question whether it would not be more socially profitable for the philanhopist anxious to help solve the problem to invest in the latter rather than the ormer.

The information gathered by questionnaire goes to show that those sing the registries obtained rooms at lower rates, on the whole, than hose who lived with their families or obtained outside rooms through ther channels. The questionnaires were distributed through emloyers, and the field was limited by the unwillingness of many busiless heads to place them before their employees. Some 9,000 were ollected, filled out more or less completely by women of every occupational class, from low-grade workers with wages ranging upward rom \$4 a week to business and professional women with yearly earnngs running well up in the thousands. The majority of these women ived with their families, the proportion varying from 55 per cent of he business and professional women to 82 per cent of the office work-Taking the group as a whole, of 8,635 reporting on this point, 949, or 69 per cent, lived at home. This fact, however, does not eem to bring down the general level of rents paid, as appears from the following table:

WEEKLY RENT PAID BY WOMEN IN SPECIFIED ORGANIZATION GROUPS.

Item.	Business and pro- fessional.	Offices.	Stores.	Factories and trade schools.	Total.
Number reporting.	1,119	1,007	1,637	583 16	4,346 209
owest rent paid	\$1.50 63.00 10.00	\$2.00 33.00 10.00	\$2.00 38.00 10.00	\$2.00 30.00 10.00	\$1.50 63.00 10.00
Verage	13. 50	9. 05	9. 09	8. 69	10. 12

The average rent of the rooms in which women were placed by the three registries studied ranged from \$4.09 for the Young Women's Hebrew Association to \$7.85 for the Young Women's Christian Association, Central Branch, while the mode ranged from \$3 to \$7, figures which run considerably lower than those shown above.

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The questionnaire included an inquiry as to what form of housing the recipient would select if it were only a matter of choice. The replies indicated a strong preference for housekeeping apartments, in which the woman could make a home for herself. This was least marked among the business and professional women, only 39 per cent of whom preferred this type of housing. Of 5,857 women in other occupational groups who answered this query, 68 per cent gave housekeeping apartments as their choice, the proportion choosing them ranging from 65 per cent of those in office work and factories and trade schools to 72 per cent of those in stores.

It will be seen that two points stand out prominently in this study: The desirability of extending the work of the rooms registries for women, even though this involved conducting them on a partially subsidized basis, and the strong desire of self-supporting women for housekeeping apartments. Whether it is possible to supply the latter at rents within the reach of the average employed woman is a question left unsolved by the report, but it makes very clear the desire of the women themselves in the matter of housing.

# Housing Situation in Paris.1

THE housing situation in Paris, as affected by the war and subsequent conditions, and the attempts of the public authorities to solve the difficulty, are the subject of an elaborate report by M. Henri Sellier, recently issued by the housing authorities of the city. The general course of events there seems to have been much the same as in the United States, except that naturally the effect was much more marked there than here. Even before the war there had been a housing shortage in Paris, and during the war the building of houses practically ceased, so that at the close of hostilities there was an accumulated scarcity, while, owing to the establishment of munition factories and other war industries, the population had been increasing.

The extent of the housing shortage, the writer thinks, can not possibly be determined with any degree of accuracy, as at the time of writing no up-to-date and reliable figures were available either for number of apartments or for population. A careful and detailed analysis of the figures of 1911 shows that at that date the number of apartments in Paris was less by some 32,118 than the number of households, and that the shortage was greatest in the case of apartments suitable for families of four and five members. During the war there was some clearing away of houses to make room for Government buildings, and little or no new housing, so that the situation has certainly not improved.

<sup>&</sup>lt;sup>1</sup> France (Département de la Seine). L'office public d'habitations à bon marché. La crise du logement et l'intervention publique en mattière d'habitation populaire dans l'agglomeration parisienne. 4 vols Paris, 1921.

Worse than the actual shortage is the local overcrowding, due to the unequal distribution of the population, and the unplanned and abnormal growth of parts of the suburbs, which has brought about all the obnoxious features of slums in regions where space is abundant, and where reasonable foresight and planning might have brought about the development of model villages and garden cities. These two conditions have caused an amount of overcrowded and unhealthful living which can not be measured by any comparison between the population and the total available housing, but which is having an unfortunate influence upon the health and the social life of the city. Two features which he especially deplores are the increase in the use of furnished lodgings, due to the difficulty of securing housing at reasonable rates, and the continued use of old and insanitary buildings, which, as a matter of health precautions,

should have been torn down long ago.

The increase in the use of furnished lodgings is shown by the following figures for the Department of the Seine, which includes Paris

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INCREASE IN THE NUMBER OF PERSONS IN FURNISHED LODGINGS, 1914-1921.

Item.	1914	1921	Increase in 1921 ove 1914.	
			Number.	Per cent.
Number of furnished lodgings	19,010 259,414 295,455	27,071 313,567 389,964	8,061 54,153 94,509	42. 4 20. 9 32. 0

In view of the interference with family life, and the risk to health and morals involved in life in furnished apartments, M. Sellier considers it a highly serious matter for the State that within seven years the number living under such conditions has increased by nearly

Even worse than this is the continued use of old buildings which defy every principle of sanitation and hygiene. Within Paris proper there are six well-recognized tuberculosis centers, "ilots" or sections covered with old buildings crowded together and dating back to the days when it was considered good business to build over every foot of a lot, or even earlier still, to a time when modern sanitation was wholly unknown. In each of these "ilots" the mortality from tuberculosis rises far above that of the city as a whole, and in each there are houses known as strongholds of tuberculous infection. In 1913 the six combined included 1,553 houses which sheltered some 60,000 persons. Nothing has been done to improve conditions in these sections since 1913, and inevitably they are growing worse.

In the suburbs, where theoretically conditions should be much better, they are sometimes worse, inasmuch as industrial villages have grown up without order or supervision. A factory is established in a certain locality, workers flock in and find shelter where and as they can, and an insanitary and overcrowded settlement

develops, with all the worst features of a city slum.

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The housing difficulty in Paris is, then, according to the report, both quantitative and qualitative. There is a shortage of dwellings of undetermined proportions, and there is an alarming amount of insanitary housing, which can not be swept away because of the lack

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of some place to shelter the present occupants.

In considering ways of relieving the difficulty, the possibilities of private initiative are first taken into account, and the conclusion is reached that there is little hope from this source. The costs of land, labor, materials, and capital have risen to such an extent that to replace in 1920 a building constructed in 1914 would require at least five times its original cost. The cost of providing an apartment of three rooms, kitchen, and sanitary arrangements in a typical working-class tenement house of seven stories erected in 1920 would be, it is computed, 38,000 francs (\$7,334, par) against 7,600 (\$1,468, par) in 1914, and the lowest economic rent for such an apartment would be 3,450 francs (\$666, par) per annum. But the average wages of a Parisian workman, making no deductions for time lost through illness or unemployment, range from 6,000 to 9,000 francs (\$1,158 to \$1,737, par) a year. Before the war French budgetary studies set oneseventh of his earnings as the amount a worker could afford to pay for rent; since the war they have increased this to one-sixth, but even so, it is evident that three-room and kitchen apartments for workers can not be built in Paris as an economic proposition, and that private enterprise as a means of meeting the situation is a forlorn hope.

The possibilities of relief through State-assisted private philanthropic societies are next considered. Before the war, some assistance in the way of loans at low interest, etc., had been given to societies for providing dwellings at low cost, and had produced desirable results.<sup>2</sup> In the Department of the Seine such societies had put up 1,347 individual dwellings and tenements containing 2,579 apartments, but the war and the conditions following it completely checked their activities. In an effort to revive this work some additional concessions were made as to loans and as to rents which might be charged, but even these did not allow the societies to bring the rents up to a figure which would insure an economic return on the cost of building. Further, even if all restrictions as to rents to be charged were removed, there would remain the fundamental difficulty that working people could not pay the rentals necessary to make the enterprises self-supporting, even though they had the advantage of building with capital lent below prevailing rates.

Consequently little could be anticipated from this source.

Under these circumstances, the public authorities found themselves rather forced into a certain amount of housing work. In 1912 laws had been passed empowering various public bodies to embark on housing enterprises under strictly regulated conditions, and a beginning had been made. The war put a stop to building, but the public authorities kept the matter in mind, and as opportunity offered, bought a piece of land here or sold one there, or acquired property which might be of value in improving conditions in the

<sup>&</sup>lt;sup>2</sup> Details as to amount of assistance received and work accomplished by these societies are given in United States Bureau of Labor Statistics Bul. No. 158: Government aid to home owning and housing of working people in foreign countries.

city. After the war they added to these activities the purchase of unfinished buildings. There were many such buildings in Paris which had been begun before the outbreak of hostilities and on which the owners were unable to resume work. The authorities bought these up and finished them, the total cost being much less than if the total construction had been made at current prices. In addition the authorities put up new houses on the lands they had acquired. By the beginning of March, 1921, the municipality itself had, either completed or well under way, buildings providing 2,862 apartments, the municipal office of low-cost dwellings had 1,120 and the poor law authorities 929, making a total of 4,911 apartments provided at a cost of approximately 181,000,000 francs (\$34,933,000, par). The municipality had additional plans in preparation which were expected to provide 2,112 apartments, at an estimated cost of about

92,000,000 francs (\$17,756,000, par).

Meanwhile the Department of the Seine has also been busy over the housing situation, which it has attempted to alleviate both directly and through the departmental office of low cost dwellings. The formation of this office was authorized in 1915, but owing to war conditions it was not organized for over a year, and did not really begin to function until 1917. Since then credits have been given it for running expenses, for acquiring land and partially constructed buildings, for constructing temporary shelters to meet the urgent needs of the city in the post-war period, and for carrying out necessary work on the lands and buildings purchased, to the amount of 29,160,000 francs (\$5,627,880, par). By the end of 1920 the office had bought land, mostly in the suburbs, to be used largely for garden cities, amounting to 2,115,000 square meters; had bought and finished a number of partially completed buildings, and had done a considerable amount of roadmaking and other improvements on the land purchased. At that date it was calculated that the replacement value of its holdings, without making any allowance for the unearned increment, was 21,799,688 francs (\$4,207,340, par). Also, the office had on hand 7,755,817 francs (\$1,496,873, par), so that it showed a profit on its operations during three years of not far from 400,000 francs (\$77,200, par).

The plans of the office for the garden cities which it hopes to create around Paris are of special interest as being one of the first attempts to plan and direct the development of the suburbs, which have hitherto grown in a helter-skelter fashion with little regard to health, convenience, or beauty. At the time of the preparation of this report, work was under way on several of the properties, but none

had been sufficiently developed to be ready for habitation.

By April 1, 1921, the work done by the office in completing partially finished buildings had provided 94 apartments, and the work under way was expected by the end of the year to furnish 577 more,

making a total of 671.

Meanwhile the department itself had, on July 23, 1920, concluded an agreement with the State, under which the department undertook to buy tracts in the suburbs and to build thereon for working people in accordance with the laws regulating rents and profits. Its operations were to be limited to the sum of 25,000,000 francs (\$4,825,000,

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United working par), of which the State undertook to furnish half. The department was empowered to raise its half by a 20-year loan at a rate not exceeding 63 per cent. The lands and buildings were to belong to the department, which was specifically authorized to administer the undertakings itself, or through a low-cost dwellings association, or other agency, at its discretion. Proposed purchases of land and plans for building thereon must be approved by the State. Any profits or losses on the enterprise, after expenses of management were met, were to be shared equally by the State and the department.

This agreement was ratified by the law of August 8, 1920, and the department at once set to work to secure land suitable for its operations. Four parcels of land, amounting to about 77 acres, were purchased at a cost of 3,750,000 francs (\$723,750, par). These were to be used for garden cities and, where these could not well be developed, for groups of workingmen's dwellings. The plans call for the immediate erection of dwellings providing for 654 families. It had been hoped that they would be ready for occupancy by the harvest time of 1921, but M. Sellier gravely doubted whether they would be ready before the end of the year. He also doubted whether the 25,000,000 francs (\$4,825,000, par) allotted to the project would cover the cost.

Summing up, then, the number of separate lodgings, finished or under way, provided by the public authorities, was as follows:

Municipality of Paris, and municipal author Department of the Seine, through office of lo	w cost dwellings 671
Department of the Seine, acting directly	654

Comparing this result with the needs of the city, the writer finds that though good in itself it does not hold forth much promise for the Not one-fourth of the deficit known to exist in 1911 has been made up, nothing has been done toward removing the overcrowded and insanitary agglomerations of buildings in which tuberculosis makes its headquarters, and the accumulated shortage due to the cessation of building during the war has been left untouched. Nor is it apparent how the needs of the city are to be met. Private initiative will not undertake building without a prospect of profit, and the public can hardly bear the expense of meeting the gap between cost of construction and the rents workers can afford to pay. The author estimates that to build at public expense even the 32,000 lodgings needed in 1911 as the barest minimum would entail a cost of 10,000,000 francs (\$1,930,000, par) yearly for 40 years. To provide the 100,000 lodgings needed to assure every Parisian household a healthful habitation would cost the community from 100 to 120 million francs (\$19,300,000, to \$23,160,000, par) annually through a period of 40 years. Of course, the cost of building may and probably will fall to some extent, but that is in the future, while the need is present and urgent.

Several plans have been put forward for meeting the situation, of which the most striking proposes that the unearned increment in value of all real property in Paris should be taken over by the State and used for providing housing. Apparently this proposition has not made much headway. M. Sellier himself holds that much fuller

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knowledge of the actual situation is necessary before any radical plan is adopted. The figures of the census of March, 1921, should be carefully analyzed, and the degree of overcrowding, its distribution and its causes should be studied before any comprehensive scheme of dealing with the situation can be formed. Meanwhile, the various public bodies interested are pushing the plans they have already undertaken, and there is a marked movement of industries from the city to the outlying regions, which should remove some of the industrial population. More and more, also, the extra population brought to Paris by war conditions tends to diminish. Plans are under way for tearing down some of the ancient fortifications, and clearing spaces either for public grounds or for housing purposes. On the whole, there are a number of minor causes working to prevent the situation from becoming as bad as it might, so the greatest immediate need, M. Sellier concludes, is for close study of the facts, on which may be based a comprehensive plan for removing present difficulties and for preventing the development of a similar situation in the future.

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#### INDUSTRIAL ACCIDENTS AND HYGIENE.

# Problem of Dust Phthisis in the Granite-stone Industry.

BULLETIN No. 293, recently issued by the Bureau of Labor Statistics, presents the results of an investigation of the problem of dust phthisis in the granite-stone industry of Vermont, carried on by Frederick L. Hoffman with the cooperation and assistance of local labor unions, the Granite Cutters' International Association of America, the manufacturers, and Vermont State officials. It is a continuation of the investigation, the results of which were reported in Bulletin No. 231, on mortality from respiratory diseases in dusty trades (inorganic dusts), published by this bureau in 1918, and the first and second preliminary reports of the committee on mortality in dusty trades, of the National Tuberculosis Association, published in 1919. The statistical, rather than the technical or medical, aspects of the problem are given special consideration in this study.

Statistics show that "mortality from pulmonary tuberculosis among granite cutters increased from a rate of 257.7 per 100,000 in 1896 to 953.4 in 1918 (a maximum figure of 1,330 having been reached in 1916), while the corresponding mortality of the general adult population declined from a rate of 207.5 in 1896 to 96.4 in 1917, excluding in the case of granite cutters the last three months of 1918 on account of the influenza epidemic." Because of the great disparity just shown in regard to deaths from pulmonary tuberculosis, and because at the present time the death rate among granite workers is practically the highest known for any occupation of record and is increasing from year to year, the author believes that "the granite-stone industry, perhaps more than any other dusty trade, demands the utmost and thoroughly qualified consideration on the part of the State, the medical profession, and the labor organizations directly concerned."

Some of the results of the study are summarized as follows:

(1) The granite-stone industry is carried on by wage earners who, broadly speaking, live under sanitary conditions above the average, so that possibly unfavorably environmental factors are of decidedly secondary importance.

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(2) The housing conditions under which granite workers live are also above the average, so that in this respect the environmental factors are favorable to a low mortality

rather than otherwise.

(3) Anthropometric records clearly establish the fact of a superior physique, indicative of a higher degree of disease resistance, as determined by a relative weight above the average. From this point of view, therefore, granite workers should experience a relatively low mortality from pulmonary tuberculosis instead of a mortality decidedly

above the average normal to industrial occupations.

(4) Granite workers, considered by specific occupations, show wide variations in tuberculosis frequency, the excess in the death rate being most marked among the men employed in granite-stone cutting, it being especially severe among the men employed in the use of pneumatic tools. Certain occupations, such as polishing, tool sharpening, bed setting, etc., do not show a marked excess, if any, in the mortality from pulmonary tuberculosis, clearly indicating that the risk is practically proportionate to dust exposure.

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(5) Compared with the normal death rate of adult males of the State of Vermont, or of New England, the mortality from pulmonary tuberculosis among granite-stone workers has increased enormously during the last two years, as contrasted with a diminishing mortality in the population at large. diminishing mortality in the population at large.

The same conclusion applies to nontuberculous respiratory diseases, for it is shown that the mortality from bronchitis, pneumonia, and asthma is also on the increase among granite cutters, in contrast to a diminishing rate of frequency among adult

males of the general population.

While normally the rate of tuberculosis frequency diminishes with increasing adult age, the contrary is shown to be the fact as to granite cutters, among whom the death rate from pulmonary tuberculosis at ages 60 and over reaches truly appalling proportions, so much so that the statistical evidence would seem incredible if it were not supported by the additional and equally suggestive data for nontuberculous respiratory diseases.

(6) The investigation brings out clearly the supremely important fact that the incidence of the disease is practically proportionate to the length of the trade life. In other words, the effect of dust inhalation is one of growing seriousness, according to the rate of dust accumulation in the lungs. \* \* \*

the rate of dust accumulation in the lungs. \* \*

These conclusions are in conformity to the observations made in South Africa and Australia, clearly indicating that the cause of the excessive liability to pulmonary tuberculosis is the inhalation of granite dust in a comminuted form of practically ultramicroscopical particles.

(8) The nature of the dust inhaled also requires much more extended scientific consideration. For the present purpose, however, it is sufficient to state that the average silicotic content of granite is 72.96 per cent; of sandstone, 85.42 per cent; and

limestone, 1.22 per cent.

The evidence is absolutely conclusive that the dust hazard depends primarily upon the silicotic content of the dust inhaled. The evidence is also conclusive that workers exposed to marble or limestone dust suffer a decidedly lesser liability to pulmonary tuberculosis than those exposed to granite or sandstone dust, with a high silicotic

### Dust Phthisis in the Printing Industry.

By Frederick L. Hoffman.

THE subject of printers' phthisis in 1921 received rather extended consideration in a series of letters contributed to the London Daily Times. Since these letters have not been reprinted elsewhere and the material contained in them, which is of much practical value, would likely remain difficult of access to those interested in the hygiene of the printing trade, it has seemed advisable to bring together a sufficient portion of the correspondence for the present purpose, with such supplementary observations as the facts may call The correspondence was initiated by Dr. E. Halford Ross, a distinguished authority on a variety of medical subjects, in a letter dated October 14, 1920, which was followed by a letter from Dr. Leonard Hill, dated October 19, 1920, and a reply dated October 23, by Dr. Ross. A further communciation on "The presence of silica dust," by Dr. Leonard Hill, dated October 27, 1920, was followed by a letter on "Silicosis and working conditions," by Dr. Edgar L. Collis, dated October 28, 1920. To these letters Dr. Ross replied on the subject of "Silica and floating fibre," in a letter dated November 1, to which answer was made by Dr. James Crichton-Browne, in a letter dated November 3, 1920, followed by a brief communication dated November 4, 1920, on "Printers' phthisis" from the general secretary of the National Society of Operative Printers and Assistants, Mr. George Isaacs. To these communications Dr. Ross replied

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in a communication of "Predisposing Causes," under date of Novem-

The correspondence throughout emphasizes aspects of the hygiene of the printing trade which, it is evident, have not received the requisite extended and minute scientific consideration, except in a recent communication printed in the Journal of Industrial Hygiene, by Mr. C. B. Roos, representing the first results of the correspondence, to the more important conclusions of which attention will subsequently be directed.

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To facilitate the practical consideration of this question, attention may be directed to Bulletin No. 209 of the United States Bureau of Labor Statistics, by Dr. Alice Hamilton and Mr. Chas. H. Verrill (1917). which contains the results of a comprehensive investigation into the hygiene of the printing trade. Previous to this there had been published in the report of the New York Bureau of Labor Statistics for 1906 a brief report on sanitary conditions in the printing trade. The most recent Government investigation is set forth in a very brief report on Industrial Dermatosis among Printers, by Dr. William J. McConnell, of the United States Public Health Service, Reprint No. 656 (1921). Among other publications mention may be made of the industrial survey in Cincinnati of the printing trade, published by the Cincinnati Chamber of Commerce; a very brief report on business welfare, as practiced by the Curtis Publishing Co. (1916); a report on the lead menace in the printing industry, presented by Jas. M. Lynch, president of the International Typographical Union (1913); and the survey of the industrial hygiene of the different branches of the printing trade, by Dr. E. R. Hayhurst, Ohio State Board of Health (1915). Of interest and value also is the report of the Cleveland Education Survey on the printing trades, by Frank L. Shaw (1916).

### Correspondence of Doctors Ross and Hill.

IN HIS first-letter, Doctor Ross refers to silica as an active cause of pulmonary tuberculosis among printers. The letter, practically in its entirety, reads as follows:

Your leading article of October 7 on tuberculosis prompts me to relate the progress of my researches, which have been conducted in various printing works in the city of London during the past four years. I think I have discovered the third factor, the prime mover, in the occasion of this disease among printers. Early in 1918 I reported to the health committee of the Joint Industrial Council of the Printing Trades, then being formed, that there is a concentration of hereditary predisposition to consumption in printers' compositors owing to the "closeness" of their craft, and to inter-

As stated in your leading article, we know that "the tubercle bacillus can actually exist in the human body without attacking it or giving rise to any mischief"; and we know that the bacillus is actually dormant in a proportion of the population, infection occurring probably in childhood. Thus we were in possession of two of the factors governing the production of this disease, which can be regarded as a vicious partnership (if I may use an apt metaphor), of which we were familiar with two of the partners.

But these transfer

But these two factors were quiescent—they were sleeping partners only; it remained

to find out the active partner, the causative factor, which gives the highest mortality figures from tuberculosis in industry to the printers, as quoted in the Times.

About a year ago my suspicions fell on printers' "list" as being this third partner. It is a black, grumous, woolly, fluffy substance, which collects in compositors' boxes, trays, cases, and "chases." It had already been examined by certain bacteriologists

for the presence of the tubercle bacillus; their examination was sterile, and their quest abandoned. But the reason of their discouragement actually encouraged me to further observation, because the fact that the "list" was bacteriologically negative was in itself peculiar. Then I found that it does not readily decompose like the dirt was in itself peculiar. was in itself peculiar. Their I found that it does not readily decompose like the difficult collected in rulers' and readers' and binders' rooms, which soon becomes musty and smells. Then I remarked its weight. Then I realized that there was no object in looking for the tubercle bacillus in the "list"; the bacillus is already within the human subject. A chemical analysis was carried out by unbiased persons. Samples of "list" were obtained from various works, and sent, unlabeled, through the medium of my brother, Dr. H. C. Ross, to Messrs. J. R. Blockey and J. Sheard, chemists in of my brother, Dr. H. C. Ross, to Messrs. J. R. Blockey and J. Sheard, chemists in the laboratories of Messrs. William Walker, leather manufacturers, of Bolton. They reported that "list" obtained from composing rooms contains both silica and iron in appreciable quantities; that obtained from printers' machine rooms contains less. These results have since been confirmed, with fresh samples, in other laboratories. Silica and the oxides of iron are known by the medical profession to light up phthisis when inhaled continually by those predisposed to the disease. Osler describes this well in his "Practice of Medicine" under the name of silicosis—silica causing stone-cutters' phthisis or grinders' rot, iron causing a similar affection among workers in brass and in bronze. It would seem likely then that silica and iron inhaled by print-

brass and in bronze. It would seem likely then that silica and iron inhaled by printers' operatives is the third factor in the production of their phthisis. They have the two sleeping partners—predisposition and infection; and they have the remaining active partner—contained within the "list."

I believe that the prevention of pulmonary tuberculosis occurring in printers' works is now within sight. Messrs. Waterlow have, for some time past, used suction bellows on their compositors' trays, cases, and "chases" to remove the "list"; the Law Stationery Society and some other firms have employed similar methods. By some such contrivance regularly applied throughout the industry collections of "list" should become impossible; and in this way the active factor would be removed from among those who spend a portion of their lives poring over compositors' boxes, tapping the type into place. The production of pulmonary tuberculosis in the printing trade is the work of a combine; if the active partner is removed, leaving the sleeping partners to their sleep, the whole concern (to continue the metaphor) will be smashed. This must be our aim.

This letter was printed in the daily issue of the London Times of October 14, 1920, but, unfortunately, the issue of October 7, referred to herein, is not accessible. Granted that much of the argument advanced rests upon vague information, the points raised in a concrete form are well stated. To argue, however, that a recognition of the immediately inciting cause would be productive of the prevention of pulmonary tuberculosis was to hold out a hope not justified by the experience of many years in other fields of preventive medicine, for, after all, at its worst the "list" in the printing or composing room can be only one of several important contributory causes or conditions, yielding at their best to rational methods of shop hygiene with a possible reduction in phthisis liability of the group of employees most exposed to the immediate danger of dust inhalation.

The letter of Doctor Ross was replied to by an equally extended communication from Doctor Leonard Hill, an eminent authority on atmospheric conditions in their relation to health and disease.

Doctor Hill's letter reads in part as follows:

The small committee appointed by the Medical Research Council in 1914 to consider industrial tuberculosis has not lost sight of the question of the dust in the boxes of type handled by compositors, and the fact that antimony is one of the component metals of type has been drawn attention to by one of my colleagues of that committee, Doctor Brownlee. Dr. Edgar Collis, an authority on silicosis of the lungs, is a member of that committee.

Silica and iron will be found in almost any common dust, and the evidence seems to show that silica dust is only harmful when inhaled for a long period and in highly concentrated doses, as by the workers in flint, ganister, granite, and quartz. The evidence also goes to show that very large amounts of silica dust can be inhaled with impunity when mixed with coal dust, or other dust of "edible" matter. It has

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been shown that coal dust stimulates the lining cells of the breathing passages to clean up the lungs by their phagocytic action. Pure silica particles, on the other hand seem to have no such stimulating action, and collecting in the lungs tissue excite there a fibroid change, which finally ends in tubercular infection. The coal miners are remarkably free from tuberculosis of the lungs; the tin miners of Cornwall and the gold miners of the Rand are, on the other hand, devastated with this disease. So protective is the action of coal dust that it is considered safe to sprinkle the ways of the coal mines with shale dust containing a high percentage of silica in order to prevent devastating coal-dust explosions. There is hope, too, that the sprinkling of the galleries of the Rand mines with coal dust may stop the disease produced there by inhalation of pure silica dust.

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Tuberculosis attacks the operative printers' assistants more severely than the compositors, and they do not handle the boxes of type. The air of printing shops is not particularly dusty, and it seems most improbable that the inhalation of silica dust therein has anything to do with the problem of tuberculosis. The users of public roads paved with granite or flint in dry weather inhale clouds of silica dust stirred up by motor cars, but the exposure of road sweepers to such dust, so far as we know, does not suffice to produce silicosis in their lungs. What is required is daily exposure in very dusty confined places, such as the gritstone worker, mason, or tin and gold miner

work in.

Printers work in stagnant, overwarm atmospheres, and in sunless, artifically lit places, conditions which lower the metabolism and vitality of the body, the very opposite to those conditions of the sanatoria which heal tubercular children by exposing them stripped to sun and air. The operative printers have had, in some cases, the habit of working one day a week a double shift, and so exhausting their defense mechanism by overfatigue. Much of the printing work is of so light a nature that active cases of consumption can work nearly up to the end, and thus massively infect their fellows with whom they are very closely brought in contact in the stagnant atmosphere of the shop—for example, four or five men may be seen crowded round a small table engaged in setting up a frame of type for a newspaper sheet. In coughing and speaking one consumptive may then obviously massively infect the others. Examination of printers' insurance cards shows that cases of consumption are not recognized early in the hurry of panel practice. Their sickness is entered as a "chill," influenza, or bronchitis, and only when too late and the mischief is done, as phthisis.

The question, however, may be raised in this connection whether it is really true "that very large amounts of silica dust can be inhaled with impunity when mixed with coal dust, or other dust of 'edible' nature." This is rather a dangerous statement to make without the requisite and entirely convincing evidence to support it, for of all the varieties of inorganic dust silica dust is the most dangerous to the lungs and possibly to the human organism otherwise. Doctor Hill is probably on safer ground when he holds that tuberculosis attacks the operative printer more severely than the compositors, although here also more convincing evidence would have been feasible. His statement that "printers work in stagnant, overwarm atmospheres, and in sunless, artifically lit places," must be read as referring to inferior shop conditions, whereas really modern print shops are generally well lighted and aired. In this connection the concluding portion of Professor Hill's letter is of special interest:

The National Society of Operative Printers and Assistants have very wisely set up as their war memorial a sanatorium to which active cases can be sent. If the printing shops were removed to garden cities, where the work in the stagnant air of the shop could be balanced by exercise in the playing field and the garden, and fresh young green food, eggs, etc., could be had from the garden, and if medical inspection could pick out and send to the sanatorium early cases of consumption, there would, I believe, be an end to the present high rate of tuberculosis among printers. Apart from the garden city, something may be done by improved ventilation of the shops, and by teaching, through their trade-union journal and lectures, the need of all for open-air exercise and green food, the danger to others of active cases of consumption continuing at work and the need for their segregation at sanatoria, with provision for their families.

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It is to be hoped that the Joint Council of the American Printing Trades may some day see its way clear to initiate a strictly scientific inquiry into the whole question of the health and well-being of the persons employed in the printing industry. It is also to be hoped that such an inquiry will present in a consolidated form the entire experience which has been had in the treatment of the disease at the Union Printers' Home at Colorado Springs, and the correlated health education of printers with particular reference to tuberculosis prevention.

The letter by Professor Hill was replied to by Doctor Ross under

date of October 23, as follows:

When I announced the presence of silica in printers' "list" as the active cause of printers' phthisis, we are told that the Medical Research Council "has not lost sight of the question of the dust in boxes of type handled by compositors." The dust must have got into their eyes; for they never saw the connection between silica and the printers' disease. Then we are told that the air of printers' shops is not particularly dusty; and the issue is confused by talk of quartz, granite, ganister, of garden cities, and green food. The point at issue is that the "list" contains silica and silica ausses phthisis—these are facts, they are not fads and fancies. Professor Hill thinks it most improbable that the inhalation of silica dust in printers' shops has anything to do with the problem of tuberculosis. That is his opinion only; it is not a truth. It is not accomplished science; it is merely his surmise. I am going to prove him

Silica within the "list" is derived from the sand used in casting and molding the soft iron "chases" or frames into which the type is locked. These are stacked in cases and shelves in the works, and they rust. The rust loosens the sand embedded in the soft iron; and when the compositor comes to release the type and to distribute it among his boxes the sand, silica, and oxide of iron are shaken into them, too. Again, when the type-locked "chases" are passed into the machine room for printing purposes the silica, already loosened, is shaken off them by the constant movement of a ton or more of metal in the jerking, rolling, working of the machines; and the printed paper picks it up, passes it within survey of those who spend a portion of their lives "taking off" in printing works. In the monotype foundries, where the used type is melted down, the "list" comes up seething as dross within the crucibles; it is skimmed off, and often stored in open chests in the close atmosphere of some works sometimes for months until sold. It is obvious that the amount of silica in various works varies greatly and almost from day to day.

I want the interest, the encouragement, the enthusiasm of the Medical Research Council. Still more I want the good will of everyone within the printing trade. Mine is a new thought, a new suggestion, a new idea, specious and practical, based on facts—"lists," silica, phthisis. We want to prevent consumption among printers. We shall not hamper Mr. George Isaacs's excellent sanatorium. He is out to cure, to alleviate suffering in those already affected; but sanatorium treatment has not prevented tuberculosis. I am out for prevention. It can be done by cleanliness, absolute cleanliness, in all works throughout the industry; surely this is neither diffi-

ult nor costly.

Doctor Ross would have advanced his argument considerably if he had provided the results of a satisfactory analysis of dust samples from representative shops in different localities. He admits that "it is obvious that the amount of silica in various works varies greatly and almost from day to day." It would have been of value to have determined whether this variation is constant, and, if so, whether it is the shops with a high proportion of silica in the atmosphere that are also the work places subject to a particularly excessive incidence of pulmonary phthisis.

The letter concludes with the suggestion that steps be taken to ascertain the method by which "silica is conveyed from compositors' boxes, etc., to the workers' lungs." Professor Hill replied to the sec-

ond letter by Doctor Ross under date of October 27, and with special reference to silica dust, stating in part as follows:

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Dr. E. Halford Ross claims to have discovered the cause of printers' phthisis by collecting dust from boxes of type in printing shops and handing the dust to a chemist for analysis who reported the presence of silica therein. Neither the percent age of silica found in the dust is given nor that of organic material, both of which are of great importance. No estimation of the dust in the air of printing shops has been made. Doctor Ross might as well have collected the dust from the roads and had this analyzed and announced that the whole of the phthisis of the communityis due to the breathing of silica in this dust, which the traffic and the wind stir up

in abundant clouds, visible and invisible.

In the supplement to the sixty-fifth annual report of the registrar general I find among the relative mortality figures for phthisis the following: All males, 185; agri. culturists, 85; railway laborers, navvies, road laborers, 95; inn-hotel servants, 543; printers, 300; ironmongers, 135; metal workers, 189; coal miners, 89; tin miners, 816. The inn-hotel servants are exposed to silica dust which drives in from the roads, dust which they sweep up; the road laborers to the silica dust of the roads; the iron mongers to the dust from soft iron goods molded in sand; the metal workers to dust from the sand in which they mold metal goods, no less than the printers are exposed to dust from their soft iron frames or "chases." Many of the coal miners are exposed to silica dust from the rock strata contiguous to the coal seams. But of the above groups silicosis of the lungs is found only in the tin miners, who work in an excessively dusty atmosphere produced by rock drills containing a very high percentage of silica, and in the metal workers, who grind tools on gritstones.

I have collected some of the evidence concerning silicosis of the lungs in the chap-

ter on dust in my report on the Science of Ventilation and Open-Air Treatment

issued by the Medical Research Council. May I cite the following:

In the Nottingham district the coal dust is mixed with a great deal of silica dust from adjacent seams of rock. One sample showed as much as 70 per cent. The death rate among the miners is, at all ages up to 55, far below that of other employments and even slightly lower than that of farm laborers. The conclusion is drawn, then, that it is safer to mix rock dust, such as shale containing silica, with the coal dust in the ways of other mines, in order to remove the danger of coal-dust explosions (Garforth's method)

In the Rand mines the rock is pure quartzite, and phthisis is rampant. At the Mysore mine, on the other hand, there are quartzite veins, and the dust is mingled with other rock dust, and there is no excess of phthisis. If coal dust be added to flint dust and animals inhale the mixture of purpose the dust is received and the deadly sharester of purpose the dust is received and the deadly sharester of purpose the dust is received and the deadly sharester of purpose the dust is received and the deadly sharester of purpose the dust is received and the deadly sharester of purpose the dust is received and the deadly sharester of purpose the dust is received and the deadly sharester of purpose the dust is received and the dust is mingled to the dust in the dust is mingled to the dust in the dust is mingled to the dust in the du

action, and the deadly character of pure flint dust is set aside.

Ganister bonded with lime into bricks provokes no cellular reaction, and the dus causes phthisis; ganister bonded with fire clay provokes cellular reaction, and the dust does not cause phthisis.

The exact and far-reaching researches of Watt, Irving, etc., into silicosis in the Rand mines, of Collis and of Mavrogordato and Haldane have established the facts which render unjustifiable Dr. E. Halford Ross's claim to a discovery of the cause of printers' phthisis, unsupported as it is by the least evidence of silicosis in the lungs of phthisical printers.

The argument regarding the apparent harmlessness of coal dust containing a high proportion of silica, or as much as 70 per cent, is repeated, but the evidence advanced can not be regarded as admissible, since the mortality rates referred to have reference to miners as a whole and not to a particular mine in which this extraordinary degree of silica air pollution has been observed.

The concluding portion of Professor Hill's letter is to the effect

Irremediable harm has been done to the health, happiness, and efficiency of the people by the acceptance in the past of the chemical purity of the air as a standard of ventilation. Such a standard has allowed the concentration of people in overwarm, humid, and stagnant atmosphere in tenement dwellings and in workshops, often artifcially lit, whereby their metabolism and vital energy is depressed to a low level and they are exposed to massive infection from "carriers." It would be most regrettable if Dr. E. Halford Ross turned the master printers to cleaning up dust in their shops a special.

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in place of keeping the atmosphere cool, fresh, and day-lit and making clean and wholesome the bodies of the printers, and their minds contented by placing their shops in garden cities, where sunlight, fresh air, and exercise in gardens and playing fields can be obtained.

As far as is possible to grasp the true importance of these observations, they lean rather toward the advantage of general sanitation than in the direction of specific efforts of dust removal. It would seem better, however, to emphasize the latter point of view than the former, for as long as health-injurious dust is needlessly created or disseminated, so long the general health problems hardly admit of a final solution.

#### Letter of Dr. Edgar L. Collis.

FOLLOWING this correspondence between Doctor Ross and Professor Hill, an important contribution to the discussion was made by Dr. Edgar L. Collis, professor of preventive medicine of the Welsh National School of Medicine, in a letter to the London Daily Times of October 28, 1920, reading, in part, as follows:

You have recently given hospitality to the suggestion, put forward as a discovery, that the undue prevalence of phthisis among printers is due to the inhalation of dust containing silica and oxide of iron. Dust inhalation exerts its influence in predisposing to phthisis by setting up fibrosis in the lungs. The disease, fibroid phthisis, which results is twofold: First, there is the fibroid condition, which, since it is associated with the inhalation over long periods of fine particles of silica (and possibly to no other form of dust), is called silicosis; secondly, tubercular infection takes place, when the condition of the patient is altered by the ravages of the tubercle bacillus. The disease is really a tubercular silicosis.

The silicosis stage has certain definite and usually easily recognized physical signs, which are well known among gold miners, tin miners, metal grinders, potters, stone-masons, ganister workers, and others. The mortality which follows has certain definite characteristics; it occurs rather later in life than the more ordinary form of pulmonary tuberculosis; and it is always found associated with a high mortality from other diseases of the lungs. The Royal Commission on Metalliferous Mines and Quarries, whose attention was drawn by me to the previously unrecognized peculiarity of silica dust in causing the fibroid condition, carefully considered this disease, and expressed their opinion in their report published in 1914:

their opinion in their report published in 1914:

If in any given class a high death rate from pulmonary tuberculosis is found occurring at a later period of life than is usual for pulmonary tuberculosis, and if this high death rate is associated with a high death rate from other respiratory diseases, then this class is exposed to the inhalation of injurious dust.

The above facts bear on the question of the causation of phthisis among printers in the following way: (a) Neither clinicians nor pathologists have described during life or after death the easily recognized condition of fibroid silicosis among printers dying from phthisis; (b) phthisis among printers does not occur at the age characteristic of tubercular silicosis; (c) the mortality of printers from respiratory diseases is considerably below the average.

On the other hand, phthisis among printers resembles both clinically and statistically the disease as it occurs, also to an unusual degree, among boot and shoe operatives and among tailors. In these industries dust inhalation does not appear to influence the prevalence of the disease—e. g., in the boot trade clickers, who are not exposed to dust, suffer more than do the men in the finishing department, where there is much fine dust of leather mixed with some silica dust from sand paper. Another instance which breaks the sequence of dust, silica, phthisis is that of makers of ganister bricks bonded together with fire clay. These men are freely exposed to dust containing a large amount of silica; yet they do not suffer from tubercular silicosis, although makers of ganister bricks bonded with lime suffer to an extent sufficient for their industry to be the first brought under the provisions of the Workmen's Compensation (Silicosis) Act, 1918.

The letter by Professor Collis, who is one of the leading authorities of the present day on dust phthisis, raises a debatable question as to

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the occurrence of silicosis among the makers of ganister bricks, generally assumed to be liable to an excessive rate of pulmonary tuberculosis. It is difficult to follow the reasoning advanced without much more specific evidence than has thus far been produced. There are many reasons for believing that the diagnosis of pulmonary tuberculosis in such cases is frequently made by medical men who have no clear conception of the nature or the symptoms of true silicosis. Another portion of Doctor Collis's letter reads as follows:

Personally, after investigations carried out in practically every industry in which there is exposure to dust inhalation, and after prolonged consideration of the influences which occupation exerts upon the prevalence of phthisis, I know of no evidence in support of the view that phthisis as it occurs among printers, bootmakers, and tailors is tubercular silicosis. The position, on the other hand, seems tenable that influences common to these and other semisedentary trades, which expose the workers to adverse physiological conditions—influences already referred to by Dr. Leonard Hill—determine the high incidence of phthisis among the operatives by lowering their general, in contradistinction to their local, power of resisting infection.

It is quite probable that this viewpoint is correct on general principles. As stated before, the incidence of silica dust is at most but one of many factors contributing toward a high death rate from that disease in the printing trades. Without a large number of autopsies it would be impossible to differentiate a silicotic condition of the lungs in cases showing otherwise all the well-known symptoms of true pulmonary tuberculosis. It is in any event safe to assume that if a true silicosis were common among printers, the fact would not have escaped attention so long, but, however that may be, there is urgent need of a really qualified investigation. This has not thus far been made, and its urgency is not emphasized by the two authorities whose opinions have been quoted.

#### Report of Doctor Ross.

DOCTOR ROSS issued a further reply in the London Times of November 1, 1920, in which he once more dealt with the question of silica and floating fiber, and this time in more detail:

The printers have set themselves to build a sanatorium; they must have had a reason. It is because they have "consumption"; to this I can testify; I, myself, have seen it almost every day; it needs no blue books. The printers seem to know more about their phthisis than do the professors with their contradictory statistics and their conflicting statements.

The challenge in the Times of October 23 was not accepted, so I will tell my story. Silica within the "list" is conveyed from the compositors' trays and boxes into the workers' lungs by tiny, floating, vegetable fibers. These come from printers' paper, which is made from the pulp of trees. This method of carriage was found in the following way: One afternoon I was "observing" in a top-floor composing room when suddenly a sunbeam appeared through the skylight; its light showed a thin, dimly visible haze around the workers' heads and hands as they picked and tapped the type. The haze seemed to consist of minute floating particles such as one sees under similar conditions in most living rooms. I put a microscope into the sunbeam and saw nothing; then I put the sunbeam into the microscope and saw everything. The floating particles are fibers; but in printers' works the fibers are armed with microscopic crystals of silica grit derived from the "list," which in turn comes from the sand in the rusting "chases." The paper fiber gets clogged into the type in the machine rooms; and when the type is released the fiber is distributed with the sand into the compositors' boxes. Here it rests. When the type is used again the worker picks out the letters he wants and the "list" is thrown up into the air, for it waits like dirty snuff. Then the armed fibers float—the heaving loaded fibers fall, the lighter-weighted rise, fall, then rise again; it is a matter of counterpoise. Some are inhaled.

In a dense, high, leafy wood, once more I watched a sunbeam. Here was no floating fiber carrying grit. The fiber was in the trees, the grit upon the ground; they had no combination in the air as in our stuffy rooms.

When the fibers are inhaled, some must rise to the tops of the lungs. The fibers are adscititious, and can be absorbed; but the grit they hold is indivisible, insoluble, inadhibitable, and is not consumed. It is bright as a brilliant under the direct light of the microscope; and, like a diamond, it cuts. Living cells on gelatin can be made to engulf the fiber; like a bait they take the grit as well—then they swell and die. A giant cell is a dying cell; and, as stated in your leading article of October 7, becomes a nidus of dead tissue ready to be the seat of infection. Then awake the sleeping partners, predisposition and infection, with grit in active combine. Again comes more grit, and more grit, again, again, again; and so the business spreads.

But in the country, as in the woodland sunbeam, where the fibers and crit are not

But in the country, as in the woodland sunbeam, where the fibers and grit are not in actual combination, the business often ceases; hence we have open-air treatment and the sanatorium, which is but patchwork, and as a means of wholesale prevention

among printers is not practical.

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from n the sand worker wafts i, the ne are This statement is a useful contribution to a subject which has thus far received but fragmentary consideration. Even granting that possibly "list" is not so serious a factor as is here asserted to be the case, it is, nevertheless, in all probability an important contributory factor, the presence of which should not be lost sight of. But Doctor Ross goes too far when he concludes with "My story is completed," for "it is the secret of fibrosis and of silicosis, of pulmonary tuberculosis as well as of old 'consumption'; it is a tale of a conjunction, a concatenation, a conspiracy of circumstances, which, now that we know, we can and must prevent." As a matter of fact, Doctor Ross advances no more than a hypothesis that leaves the real ascertainment of the facts to the future.

#### Letter of Dr. James Crichton-Browne.

THE foregoing correspondence is of particular interest as illustrating the want of scientific thoroughness in dealing with an important question affecting the health and well-being of a very considerable proportion of wage earners. The letters attracted the attention of so distinguished an authority as Dr. James Crichton-Browne, who, under date of November 3, 1920, wrote to the London Times as follows:

Mr. Halford Ross gives us a picturesque account—somewhat reminiscent of Tyndall—of the dust in the printer's composing room, but he fails to supply us with any scientific evidence in support of his contention that that dust is immediately responsible for printer's phthisis. Almost all dust contains silica and vegetable fiber, and until Mr. Halford Ross can show that the amount of silica in the dust of the composing room is disproportionally large, and that it is fibrosis and tubercular silicosis, and not ordinary pulmonary tuberculosis, from which printers suffer, his discovery remains merely an ingenious speculation.

A number of years ago, when studying the dust problem, I collected some dust from the top of a wardrobe in the sick room of a lady in the West End of London. The room had been whitewashed and papered a few months previously and dusted regularly, but the wardrobe had been overlooked, and a thick layer of dust had been deposited on it. In a test tube the dust was not unlike basic slag, being of the same gray color, but, of course, much lighter and more flocculent. To analysis it yielded the following results:

Moisture	4.4
Organic matter	52.6
Silica and insoluble silicates	21.0
Oxide of iron and alumina	
Lime (CaO.)	
Carbonic acid, with traces of sulphuric and phosphoric acid	

100.0

Under the microscope the dust was seen to consist of inorganic and organic material. The inorganic matter was mostly amorphous, and the organic matter organized. Among the commonest constituents were vegetable and animal fibers derived from fabrics such as linen, cotton, and wool, something resembling jute fiber being also present. In addition, there were a few feather barbs and fragments of wood. Among the most interesting constituents were squamous epithelial cells from the skin and small round cells, both of which were fairly numerous. Food materials were represented by starch granules, and there were certain organized vegetable materials, among which a few pollen spores could be identified.

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Such a low points spores could be identified.

Such is London domestic dust. Dust of many different kinds may be provocative or aggravative of phthisis, and it is possible that silica may play some part in the origin and advance of that malady in printers, but it seems much more probable that its prevalence amongst them is attributable to the other conditions, enumerated

by Dr. Leonard Hill, under which their employment is carried on.

But even this interesting communication does not materially aid the question in that it leaves unsolved the problem as to what the true proportion of silica in the dust of printshops in which the "list" is present in appreciable quantities really is. But the conclusion by Doctor Crichton-Browne would seem to be sound that while it is possible "that silica may play some part in the origin and advance of that malady in printers, it seems much more probable that its prevalence amongst them is attributable to the other conditions, enumerated by Dr. Leonard Hill, under which their employment is carried on." This might be so or might not be so, according to the evidence which thus far has not been forthcoming.

#### Letter of National Society of Operative Printers.

AN INTERESTING letter bearing upon the controversy was contributed by the secretary of the National Society of Operative Printers, dated November 4, 1920:

As secretary of the National Society of Operative Printers and Assistants, I am naturally keenly interested in the correspondence relating to tuberculosis amongst printers, especially amongst printers' assistants. Whilst anxious to ascertain the cause of the prevalence of the disease among printers, my society is more eager to do what it can to cure those who are now suffering from this terrible disease, and to make

the risk of infection less than previously.

Mention has been made of the sanatorium we are building to fight tuberculosis, such sanatorium to be a memorial to our fallen members. This is a huge undertaking for a trade-union of less than 20,000 members to contemplate, but the work has actually commenced, thanks to the ready assistance of newspaper proprietors and master printers. We are, however, in urgent need of funds, and I beg to take this opportunity of making known our necessity. Our institutions have for their president the Right Hon. the Viscount Northcliffe, and the support of other eminent gentlemen in our industry. This is a sufficient guaranty for our bona fides. I am confident that, were our objects known outside the industry, we should receive assistance, and we should be grateful if any reader of this correspondence should feel moved to help us.

In any event, as representing the section most seriously suffering from tuberculosis in the printing industry, we thank you for the publicity given to this matter in your columns, confident that good will arise from the interchange of opinions.

This letter also fails to advance the problem so clearly presented by Doctor Ross, that the question of phthisis in the printing trade should receive the most qualified consideration of those competent to inquire exhaustively into the true nature of the problem stated. Raising huge funds for curative purposes does not go to the root of the question which concerns the prevention of the disease at the outset.

#### Further Statements of Doctor Ross.

UNDER date of November 20, 1920, Doctor Ross made a further extended statement with particular reference to predisposing This statement includes the interesting observation that thus far the evidence has been inconclusive that printers were suffering from silicosis. This raises a very interesting question as to whether silicotic dust of itself may be the cause of pulmonary tuberculosis without leading to a silicotic condition of the lungs. This, of course, is quite improbable and clearly illustrates the superficial manner in which the underlying facts of a highly suggestive situation have been considered. The letter is as follows:

I shall be grateful if you will allow me to reply to the criticisms of my research into printer's phthisis. These resolve themselves into two. The first concerns the amount of silica within the printer's "list." As stated before, this varies greatly in each works. Its sources must be remembered—the age, the number, the rusting of the "chases," and the temperature and texture of the molten iron used in their manufacture. But the presence of silica in the machine and composing rooms is constant, though if we tried to find its exact constant content, an immense number of analyses would be required from thousands of boxes and rooms in order to satisfy the law of chances to exclude the error of random sampling. Fortunately, this is not necessary, for silica is always there; it is a consistent element in the "list." A more important factor is the amount and range of flight of the tiny floating fiber which carries the silica into the workers' lungs. In all "carried" disease the salient thing is the radius of action of the carrier. There is the example of insect-borne diseases such as malaria, yellow fever, sleeping sickness, infantile enteritis, which vary directly with the activities of the infected mosquitoes, tsetse, or house flies. We set out to arrest the carriers; we do not stop to count their passengers. So it is with printer's phthisis; its incidence varies with the amount, size, shape, weight, and radius of action of the floating loaded fibers, and these vary with the quantity and quality of paper used. It must be realized that the machine and composing room operatives work close to the fiber, and thus readily inhale the carried grit.

The other criticism is that printers have not been shown to suffer from silicosis. I did not say they had. I said that printers have phthisis, and that silica causes phthisis when combined with the sleeping partners; predisposition and infection, which vary in each case like the dose of the carrier. It is a toiling of terms. Silicosis, chalicosis, siderosis, pneumoconiosis, sclerosis, fibrosis, industrial phthisis, is but the old "consumption." If careful inquiry is made into each of the phthisical trades, Rand miners, tin miners, cotton doublers, metal grinders, quartz, granite, and ganister workers, grain shovelers, bootmakers, tin (iron) box manufacturers, and domestic servants, there will be found in active combination near them, as among the printers, silica carried by fiber. But we must beware of the error of random sampling when we consider comparative statistics of this industrial disease, for which there is one end term, namely, pulmonary tuberculosis. And Sir James Crichton-Browne is right when he says that dust may be provocative of phthisis—it is the silica within the dust

carried by the fiber which is the active cause.

Does the fiber carry germs as well as grit? I have reasoned very carefully. So far as pulmonary tuberculosis is concerned, the evidence at present is against it; the germs are buried deep within the lungs. Spitting is diminished. Has pulmonary tuber-culosis diminished, too? But what of other affections of the mouth, and nose, and throat, of asthma and bronchitis, of "colds," catarrhs, and coughs? Is it possible that sometimes the fiber in our rooms is germ-laden, can be a sword poisoned as well as sharp? I do not know, but I think that a new pathway has been opened for research.

Below is given another letter by Doctor Ross, contributed to the London Times; unfortunately the date of the issue is not available.

It is most gratifying to hear, according to your issue of the 13th instant, that the Medical Research Council has confirmed dust (silica) as being the active factor in the causation of pulmonary tuberculosis. It will be remembered that this was enunciated by me in the Times of October 14, 1920, under the title of "Printers' phthisis," and

gave rise to considerable controversy.

The Whitley Council, the Federation of Masters, the trade-unions, and the technical press of the printing trade have taken up the matter strongly, and dust reduction has

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already been effected by many firms with good results. But we are not justified in concluding that the industry is out of danger. Yet this is what one of H. M. inspectors of factories would appear to have us believe. He has written an article in the current Home Office Annual Report, in which he draws the deduction that printing is "not a dusty trade." This and other conclusions were made after investigations in eight factories. Sir Arthur Whitelegge, in the last chapter of his well-known book on public health, warns us against such premature deductions, calls them errors of random sampling, and labels them as unscientific. The book quotes a formula by which these mistakes can be avoided. As there are 8,000 printing works in this country, the inspector's deduction shows a statistical error of 25 per cent.

There is no doubt that dust plays a dangerous part in the health of our lives, and

can be greatly reduced.

Doctor Ross is entirely justified in his conclusion that the element of error in limited investigations is too serious a factor to be obscured by official authority responsible for emphatic statements not, perhaps, in strict accordance with the facts.

#### Incidence of Phthisis in Printing Trades.

IT IS interesting to note that in the entire correspondence no specific information is presented as regards the true incidence of phthisis in the printer's trade. Major Greenwood, of the Lister Institute, in the Milroy lectures for 1922, has, however, included some tables which permit of a definite statement regarding the comparative mortality from phthisis and from nontuberculous respiratory diseases, as well as from all causes among printers, according to the occupational mortality experience of England and Wales for the period 1910-1912. This important information has been republished in the British Medical Journal of May 13, 1922.

According to Major Greenwood, the relative mortality of printers from all causes, compared with that of clergymen, taken as 100, at ages 20-34, was 218; while for the mortality from phthisis it was 402 and from pneumonia, 200. Here, then, is definite and conclusive evidence that the mortality from phthisis of English printers soon after entrance into the trade is four times that of clergymen, who are assumed to represent a practically nonhazardous occupation.

At ages 35 to 44, in contrast to the comparative mortality of 100 for clergymen, the mortality of printers from all causes was 251;

from phthisis, 464, and from pneumonia, 239.

At ages 45 to 55, against a comparative death rate of 100 for clergymen, the mortality of printers from all causes was 192; from phthisis, 571, and from pneumonia, 175. Thus the phthisis death rate for printers is progressively excessive until middle life. At ages 55 to 65, the comparative mortality of printers from all causes is 130; from phthisis, 496; from pneumonia, 137, and from bronchitis, 413. How much of this mortality is erroneously diagnosed as tubercular or non-tubercular respiratory diseases instead of what may possibly have been a true form of silicosis is, of course, a matter of conjecture, but the evidence is absolutely conclusive that the tuberculosis mortality of English printers, throughout life, is relatively enormously in excess of an occupation generally assumed to be the healthiest of all occupations. While the comparison is a severe one, it is, nevertheless, strictly admissible.

Unfortunately, the most recent contribution to this interesting subject, made by Mr. C. B. Roos, H. M. inspector of factories, and

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eless, sting and reprinted in the Journal of Industrial Hygiene for January, 1922, is not available at this writing. But the major purpose of reprinting the foregoing correspondence has been to place on permanent record the viewpoint of high British authorities on a most important medical and sanitary question concerning the hygiene of the printing trades. The correspondence will prove invaluable in the furtherance of more detailed research into a subject which requires decidedly more exhaustive consideration than it has thus far received.

# Heart Disease in Industry.

TWO articles appearing recently in medical journals evidence the interest which is being taken by physicians in cardiac disease, particularly in its effects upon industrial workers. In the general discussion of the subject by Doctor Clark in the Boston Medical and Surgical Journal <sup>1</sup> reference is made to a recent study by Dr. Louis I. Dublin which showed that 2 per cent of persons examined by insurance companies are rejected for serious heart defects, that the same percentage of serious heart disease prevails among industrial workers, and that rejections in the draft and camp examinations for this cause formed 2 per cent of the total, while the rate among children examined in the schools has been found to be from 1½ to 2 per cent.

Tuberculosis has long been recognized as one of the prevalent diseases among industrial workers, and while cardiac disease does not produce the early mortality of tuberculosis it is surprising to learn that in the past three years organic heart disease has caused more deaths than tuberculosis. This change in relation of the two diseases has not been caused by an increase of mortality from heart disease, the rate for which has remained fairly stationary in recent years, but by a fall in the number of deaths from tuberculosis. The seriousness of the disease is shown by the statement that organic heart disease causes as many deaths as typhoid fever in persons under 25 years of age. Between 25 and 34 years it causes more deaths than lobar pneumonia; between 35 and 44, more deaths than Bright's disease; and after 45 years, it shows a higher death rate than any other cause.

The definite effect of industrial poisons in producing specific heart disease is more or less an open question at the present time, although it is the personal belief of the writer that there is no industrial poison known which has a specific effect on the heart resulting in disease. There are substances, however, which he states cause disordered action of the heart and cardiac syncope, and while arteriosclerosis, which may be caused by lead poisoning, is a very important cause of heart disease, he still questions whether it can be attributed solely to work in industry. From his experience as an industrial physician, the writer believes that the majority of cases of heart diseases are secondary to germ infection, and that in most of these cases the germ was that harbored in the tonsils or causing rheumatic fever.

In dealing with the individual cardiac in industry the problem for the industrial physician is to prevent strain. To accomplish this a

<sup>&</sup>lt;sup>1</sup>Boston Medical and Surgical Journal, July 6, 1922, pp. 21-23. "Heart disease in industry," by W. Irving Clark, jr., M. D.

careful primary examination and record is necessary, an adjustment of work when required, reexaminations at stated periods, and careful instruction as to proper living. By following such a program, the author says, "organic heart disease may carry on in industry with minimum risk and maximum value to the diseased individual and

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The necessity for early recognition of cardiac disease and supervision of these cases is also stressed by Doctor Phipps 2 in an article in The Nation's Health, although he considers that the usual routine physical examination of all men seeking employment fails through placing the stress on the more obvious lesions and overlooking the obscure or border-line cases. Cardiac disease may manifest itself between examinations when these are given periodically, and in order to recognize this condition as soon after its onset as possible it is essential that industrial physicians should investigate all illnesses or incapacities with a clear understanding of what symptoms suggest cardiac difficulty.

The diagnosis of a severe "cold" or bronchitis may perhaps, on investigation, prove to be some degree of cardiac decompensation with resulting cough, expectoration, and dyspnea. The statement that the employee's feet have been "bothering" him may depend upon the edema of a failing heart. "Gas," a common lay diagnosis, may in reality prove to be abdominal enlargement due again to heart disease. "Rheumatism" or "neuritis," involving the left chest and arm, may be the pain from sclerotic coronary arteries, or, more commonly, the complaint of 'indigestion,' with a history of attacks of epigastric discomfort, when occurring after middle age, should always suggest angina pectoris.

Besides the investigation of such symptoms and incapacities, the time sheets and efficiency records of modern manufacturing plants will often be of suggestive value. Hand in hand with the loss of heart power goes usually a corresponding loss of working ability, nor is this surprising when we consider how dependent are our activities upon

the circulatory system to meet varying conditions.

The difficulty of recognizing many initial cardiac lesions and their varying degrees of seriousness make careful diagnosis of great importance, but in addition to this and of even greater importance, the writer states, is the determination of the ability of the heart to do its work and what its reserve power is.

For economic reasons, we should not allow men to attempt to fill positions for which they are unfitted because of some heart lesion: They should not be allowed to do poor work, nor should they undermine their health in attempting to do good work. They should be refused work which overtaxes their heart's strength. Opportunity for sudden or violent exertion—or perhaps extreme emotional stress, in some cases—should be removed, and the employee should be warned of such danger. Our second duty to the employee must consist in trying to relieve his cardiac condition in so far as possible, and this entails arranging his work with the idea of giving him less than his heart is able to do without injury. This may mean lighter work, work of a different kind, or perhaps complete rest. Of great importance in the recognition and perhaps the prevention of the border-line case is a knowledge of what conditions enter into its production. The specific diseases—rheumatism, syphilis, diphtheria, scarlet fever, hyperthyroidism—are common causes of heart trouble, and so should be treated with this fact in mind. Arteriosclerosis and chronic Bright's disease, with or without arterial hypertension, almost always have some harmful effect upon the heart, and so in selecting work for such patients, the increasing cardiac embarrassment must be taken into consideration. Certain poisons, such as lead and arsenic, may play at least a part in the production of heart disease, and, beside our prophylactic measure, this fact would suggest more frequent and careful examinations of workmen engaged in their manufacture.

<sup>&</sup>lt;sup>2</sup> The Nation's Health, July 15, 1922, pp. 434, 435. "Heart disease in industry—border line cases," by Cadis Phipps, M.D.

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While rest is essential in many heart conditions, in certain of the arrhythmias which rest upon a distinctly neurotic basis, nothing should be done to increase the patient's apprehension since such a heart would not be injured even by vigorous exercise. Labelling such a patient as "cardiac" and advising giving up all work involving exertion, while it is often done, is said to be distinctly harmful. Besides these purely functional disturbances, it is stated, there are also many cases of heart disease which may be benefited by some degree of exercise, although an ample period of complete rest must be allowed and the return to work should be gradual and should never be allowed to reach a stage where it has an injurious effect.

In conclusion the writer says:

It is not the obviously damaged heart which is neglected; it is the obscure, or border-line, case. A border-line case is oftentimes more amenable to treatment than the established or long-continued lesion, and so may be benefited if recognized. To determine if an obscure heart lesion be present, it is usually not sufficient to depend upon a routine physical examination; a careful history of the symptoms and a consideration of various etiological factors, combined with several physical tests, must be employed.

Besides protecting the industry, the employee's health must be of prime interest. His interests are best served (in regard to cardiac disease) by (1) removal or preventive treatment of possible causes; (2) earliest possible recognition of cardiac disease; (3) complete rest for a sufficient period of time, followed by (4) a gradual return to working

conditions, never reaching the limit of the heart's ability.

# Safety Activity of a Large Motor Company.

EACH new employee at the works of a certain motor company is given a card which reads as follows:

#### TO ALL NEW EMPLOYEES.

Greetings: We want your stay with us to be long, prosperous, and free from injury. Whether or not it will be so is partly up to you. Are you careful? Are you ambitious? Work safely so we all can enjoy safety.

When injured so that blood shows, come to the doctor's office at once-

not two days later.

Goggles have saved many men from blindness. Get them at tool crib and wear them when working on cyanide furnaces, chipping, grinding, babbitting, breaking up concrete, shapers, and all other jobs where small particles fly.

Before working on ladders or scaffolds be sure to test them.

— MOTOR CO.

DEPT. SAFETY AND FACTORY HYGIENE.

SAFETY RECORD: One death by accident among 50,000 workmen during fiscal year 1918-19.

In this way the employee is at once made aware of the management's attitude regarding accidents and specially warned regarding three items which experience has shown to be of particular importance.

The following table compiled from the quarterly publications of the company gives an idea of the results secured by the various efforts of the department of safety and factory hygiene. The table covers six months of 1922.

ACCIDENT RECORD IN A LARGE MOTOR WORKS, JANUARY TO JUNE, 1922.

Month.	Days in operation.	Number of workers.	Fatalities.	Nonfatal accidents.	per 1,000,000 hours'	Severity rate (days lost per 10,000 hours' exposure).
January February March April May June	14 16 20 25 26 26	37, 766 36, 792 37, 296 41, 766 45, 946 49, 850	0 0 0 0	34 34 59 91 114 131	8. 43 7. 22 9. 89 11. 43 12. 51 13. 25	7. 86 . 55 5. 76 2. 96 4. 74 2. 31

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The table illustrates again the strong tendency for minor injury to increase when new men are taken on. The second three months of the period covered was marked by the addition of more than 12,000 men to the working force. From month to month while this increase was going on the accident frequency rate increased. It is still an open question whether it is possible to oppose this tendency by sufficiently energetic measures to prevent it altogether.

That this increase was due to a greater number of cases of minor injury becomes evident when the severity rate is considered. The average severity rate of the second three months' period is materially below the first three months notwithstanding the increased frequency.

When the safety department noted this increasing frequency it was determined to stage a week of special accident prevention effort. Group meetings were held throughout the works, at which superintendents and foremen instructed the men in safe methods of procedure in their particular jobs.

The week showed a reduction in frequency of about 50 per cent

from the week immediately preceding.

It is proposed to hold such safety meetings on the first workday of each month hereafter, to continue the instruction and keep alive the interest and attention of the men.

### Mine Accidents in Alaska, 1921.

THE following table, compiled from the Report of the Territorial Mine Inspector of Alaska, for 1921, shows the number of men employed, the number of shifts worked, the number of accidents occurring, and the days lost thereby, at lode mines, ore-dressing plants, and coal mines in Alaska in 1921:

SUMMARY OF MINE ACCIDENT STATISTICS FOR ALASKA, 1921.

	Num-	Num-	Num-	Resu	Total		
Group.	ber of plants report- ing.	ber of men em- ployed.	ber of shifts worked.	Fatal.	Serious.	Slight.	time lost (days).
Gold mines Copper mines Gold-milling plants Copper-milling plants Coal mines	12 7 9 2	698 403 364 216 337	178, 828 213, 977 97, 996 77, 814 103, 289	7 4 1	28 30 3 8 9	82 74 20 4 15	1, 775 1, 379 156 209 471
Total		2,018	671, 904	* 12	78	195	3,990

<sup>&</sup>lt;sup>1</sup> Number not given.

<sup>2</sup> In addition to the fatalities listed in the above summary three not directly connected with mining a milling operations occurred during 1921. Two of these were due to snowslides and one to the wrecking a bunkhouse during a storm. Two occurred at gold mines and one at a copper mine.

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#### First Aid and Mine Rescue.

FOR many years the work of carrying on first aid and mine rescue classes had been neglected in Alaska, but in October, 1921, the United States Bureau of Mines assigned one of its staff to conduct such classes in the territory under the direction of the mine inspectors. The report emphasizes the need for first aid. Since many of the mining camps are too small to support a doctor, and several days may pass before medical aid can be secured for injured persons, the advantages of having the workers able to give first aid are obvious.

## Fatal Accidents in British Coal Mines, 1874 to 1920.

THE following table compiled from statistics published in the report of the Monmouthshire and South Wales Coal Owners' Association (pp. 130-133) shows the number of underground and surface employees, total number of deaths from accidents, and the death rate per 1,000 persons employed in British coal mines, 1874 to 1920, shown by five-year intervals up to 1914. The highest death rate for both groups of workers occurred in 1878, the rate being 3.4 per 1,000 persons employed underground and 2.9 for underground and surface workers combined.

NUMBER OF EMPLOYEES, NUMBER OF DEATHS FROM ACCIDENTS, AND DEATH RATE PER 1,000 IN BRITISH COAL MINES, 1874 TO 1920.

	Under	rground worker	s.	Underground and surface workers.				
Year.	Average number employed.	Deaths from accident.	Death rate per 1,000.	Average number employed.	Deaths from accident.	Death rate per 1,000.		
874 879	428, 611 385, 179 422, 233	947 902 848	2. 2 2. 3 2. 0	538, 829 476, 810 520, 376	1,056 973 942	1. 9 2. 0 1. 8		
89 94	463, 600 569, 678 583, 009	969 1,015 801	2.0 1.7 1.3	563, 735 705, 240 729, 009	1, 064 1, 127 916	1. 1. 1.		
004 	681, 683 818, 381 915, 381	914 1,321 1,086	1.3 1.6 1.1	847, 553 1, 013, 998 1, 133, 746	1, 055 1, 453 1, 219	1. 1. 1.		
0.5	754, 673 792, 911 811, 510	1, 167 1, 163 1, 214	1.5 1.4 1.4	953, 642 998, 063 1, 021, 340	1, 297 1, 313 1, 370	1.		
018 019	794, 843 945, 806 990, 359	1, 214 1, 277 1, 003 965	1.6 1.0 1.0	1, 008, 867 1, 191, 313 1, 248, 224	1, 401 1, 118 1, 103	1.		

<sup>&</sup>lt;sup>1</sup> Gibson, Finlay A. A compilation of statistics of the coal mining industry of the United Kingdom, the various coal fields thereof, and the principal foreign countries of the world. Cardiff, 1922.

# WORKMEN'S COMPENSATION AND SOCIAL INSURANCE.

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# Comparison of Workmen's Compensation Insurance and Administration,

THE Bureau of Labor Statistics has recently issued a bulletin entitled "Comparison of workmen's compensation insurance and administration," being the report of an original investigation (covering 20 States and 2 Canadian Provinces) of the relative costs, security, and service of the various types of insurance carriers.

Exclusive and competitive State funds are differentiated and a general comparison is drawn between State funds and private insurance, especially as to cost, both to the State, to the employee, and to the employer, and as to the nature of the service rendered. As regards promptness of payments the records of the State funds vary widely and there are also great variations in each type of insurance carrier. Long delay on the part of all carriers is shown, and self-insurers are just as slow in paying compensation as the casualty companies or State funds. There are various reasons for the long delay in making payments by the State funds, such as delay of employers, physicians, and employees in reporting accidents, inadequate follow-up methods, complicated procedure, insufficient force, etc.

The cost of compensation insurance to employers under different insurance systems as indicated by their expense ratios is found to average approximately 38 per cent for stock companies, 20 per cent for mutual companies, 10.6 per cent for competitive State funds, and 4 per cent for exclusive State funds. Thus far no injured workman has lost his compensation because of the insolvency of State insurance funds, nor has any large mutual company become insolvent. There have been several disastrous failures of stock companies during the last few years, while in 15 of 21 States whose experience has been reported no self-insured employer has failed or gone into the hands of a receiver, and only 2 States reported failures—one small concern in each State—which resulted in several claims being unpaid.

The report also discusses the administrative functions, personnel, and expenses of the different commissions and funds, and methods of accident reporting and claim procedure are compared and also given in detail for each fund or commission. Data are presented relative to the solvency of State funds, including the questions of rates, merit rating, reserves and surplus, claim reserves, catastrophe reserves, dividends, collection of premiums, auditing of pay rolls, and expenses, premium income, surplus, and dividends. As to reserves and surplus it is said:

The actuarial solvency of a fund means that at any given time the assets of the fund are sufficient to meet all outstanding liabilities and obligations. This would include adequate reserves covering all outstanding claims or deferred payments, unreported

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accidents, reopened claims, future administrative expenses, and any other contingent liability. In addition it is also desirable to have a catastrophe reserve to take care of the catastrophe hazard and an additional surplus to meet exceptional and fluctuating losses. The adequacy of the reserves and surplus as shown in the financial statements of the funds depends upon whether proper actuarial methods were used in computing the reserves.

A survey of the accident and compensation statistics of the various States shows there is need for greater completeness and adequacy of data and for harmony in methods of presentation. The effect of the weekly maximum in reducing compensation benefits is brought out in a series of tables, which show that as a matter of fact, because of the operation of this weekly maximum the statutory percentage of, say, 66<sup>2</sup> is reduced to 30, 25, or even 20.

A discussion of methods of computing wages in workmen's compensation practice compares the legal provisions, commission rulings, and court and commission decisions which outline the various methods now in use in the United States and Canada. What is included in the term "wages" in the various States is also discussed.

### Recent Compensation Reports.

#### Illinois.

THE Industrial Commission of Illinois has issued its annual report covering the fiscal year ending June 30, 1921, but giving accident statistics for the calendar year 1920. A preliminary statement sets forth the nature and purpose of the compensation law, and shows a large increase in the use made of it Thus, in the year 1915 but 12,240 accisince it became operative. dents were reported, while for 1920 the number was 50,585. regarded not as an increase in the number of accidents actually occurring, but, to a very considerable extent, at least, in the number reported owing to a better understanding of the law and a fuller compliance with it. The commission reports its close cooperation with the widow's pension department of the juvenile court, with the bureau of factory inspection, the employment bureaus of the department of labor, and the insurance department of the State. check is kept upon accident reports and receipts filed, and variations between settlements and the provisions of the compensation act are promptly notified to the employer.

A recent important decision largely extends the scope of the act, the supreme court of the State holding that where an establishment comes under the act as extrahazardous all employees of the establishment are included under the act, and not merely those engaged in the characteristic occupation. (Illinois Publishing & Printing Co. v. Industrial Commission, 132 N. E. 511.) It is said that "this case extended the provisions of the act to a class of employees, thousands in number, not heretofore covered by the act."

Amendments to the law are also noted, increasing the amount of benefits, and bringing disablement due to occupational disease within

Tables for the year 1920 show the number of fatal and nonfatal accidents closed and pending, with the amount of compensation and

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fund clude orted medical aid paid and to be paid; frequency of accidents by industries; with extent of disability and compensation and medical costs, compensation, medical costs, extent and average period of disability. by location of injury; nature of injury, by cause of accident, sex, and wages of injured; distribution, by counties and months and sex and age of injured; fatal cases, by industry, dependency, and total and

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As already stated, there were 50,585 compensable accident reports filed with the commission during the year, of which 597 were fatal, "It is discouraging to note that there was an increase of 62 fatal accidents in the year 1920." The number of all cases was 12,296 more than in 1919, "undoubtedly due to the fact that the employees of the State are more cognizant of their rights under the workmen's compensation act." Payments during the year amounted to \$5,143,300, the estimated amount due on open cases being \$3,415,498; besides this, there were medical and funeral expenses amounting to \$731,911. The mining of coal is responsible for the largest number of accidents and the greatest amount of compensation; metal prod. ucts rank second, with machinery and instruments third.

The total number of days lost because of injuries was given as 1,291,518, the average period of disability being 26 days. Falling objects caused the greatest number of injuries, falls of persons coming second, and vehicles third.

Though mining leads in the number of accidents and amount of compensation paid, it is interesting to note that the county of Cook, in which Chicago is located, furnishes 49 per cent of all accidents and calls for 45 per cent of all compensation paid in the State.

The age at which the greatest number of males were injured falls between 26 and 30 years, while for females it is between 16 and 20

vears.

Of the 597 fatal cases, there were 62 in which no dependents survived. Medical and funeral expenses amounted to \$17,476. There were 412 cases in which total dependents, aggregating 1,027, were left; 123 decedents left partial dependents numbering 177. The compensation paid in fatal cases was \$483,006, while \$1,254,548 remains to be paid. The average cost for fatal cases was \$2,940, while for permanent total disability it was \$9,500. As is always the case, temporary total disabilities involve by far the largest portion of the cost, aggregating \$3,551,365, or an average of \$86 per case.

The report expresses gratification over the increasing knowledge of the law on the part of both employers and employees, and the proper attitude toward each other, which "can not be better illustrated than by reciting the fact that during the last year over 50,000 accidents were reported to the commission, while about 12,000 claims were filed for arbitration; in other words, more than 75 per cent of the accidents have been adjusted without recourse to arbitration."

#### Kansas.

THE workmen's compensation law of Kansas is administered by the courts of the State, rather than by any special agency, but the court of industrial relations acts in an advisory capacity and receives reports of accidents and the amount of compensation paid. The report of the court for the year 1921 shows 6,311 accistries:

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dents reported, of which 71 were fatal, 93 caused amputation or other form of permanent disability, 2,656 others caused loss of more than one week's time, while 3,491 caused less than one week's disability. Compensation amounting to \$61,042 was paid in 23 fatal cases reported closed, or an average of \$2,654 per case. There were 33 workmen reported killed, not under the compensation law, in behalf of 16 of whom \$26,174 was collected by dependents, or an average of \$1,636 per case. Fifteen cases remain open under the compensation law, and 17 outside of it. Permanent injury cases called for \$46,904 in benefits, and temporary disablement for \$138,388.

No material amendments have been made to the compensation law since 1917, though several efforts have been made for amendments or the substitution of an entirely new law. More liberal benefits are urged, and the appointment of a commission to administer the law, unless the administration is intrusted to an existing State official, "preferably of the labor department." The present system permits almost, if not quite as much, delay as under liability suits, litigation at the employee's expense often being necessary, cases going even to the supreme court before any award is obtained. Compulsory insurance of the employer's obligations is also recommended.

#### Ohio.

THE Industrial Commission of Ohio has issued a statement to the subscribers to the State insurance fund, showing the condition of the fund as of December 31, 1921. Assets aggregated \$39,274,-516.74, of which \$35,642,702.98 was invested in bonds. Claims reserves amounted to \$30,271,475.97, the statutory surplus (catastrophe fund) to \$2,219,942.82, and the general surplus to \$1,647,-523.98. Both these surpluses exceed the estimated amounts needed as catastrophe protection and margin for fluctuations due to industrial changes, legislation, etc. Besides these a dividend has been declared payable at the first adjustment of premiums after July 1, 1922, the amount available for this purpose being \$3,000,000, or 30 per cent on last year's premiums of the employers whose operations fall within the classifications producing the surplus. Seventy-one per cent of the classifications qualified for the dividend. This favorable showing of the fund warrants a reduction in the premium rates in 66 per cent of the premium classifications; in 24 per cent, no change will be made; while in 10 per cent the experience calls for an increase in rates.

The merit rating system has been revised and extended, and, among other changes, will place contractors on the same footing in respect to merit rating as other employers, a separate plan having heretofore operated for contractors. An accident prevention laboratory has also been inaugurated. Working through the division of workshops, factories, and public buildings, there are furnished "data of inestimable value to the inspectors in carrying out their accident prevention work." Further extension of this work is in prospect, but activities in this line are limited by the appropriation made available for the purpose by the legislature, "the fund being at present operated on less than 4 per cent of the annual premium receipts, while insurance companies use from 30 to 40 per cent of their annual

premium for administrative expense."

## Experience Under Danish Invalidity Insurance Law.

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THE president of the invalidity court established by the invalidity insurance law 1 of Denmark has recently made a report 2 on the work of the court during the first six months of its existence. During this time 8,400 applications for invalidity allowances were received by the fund, 3,455 of which were passed to the court for its decision as to whether or not invalidity existed. Under the law, invalidity exists only when there is a loss of two-thirds of the earning capacity, not in a particular trade but the earning capacity of "a physically and mentally sound person of the same training, in the same locality." Pensions may be allowed for temporary or permanent invalidity, the invalidity being regarded as temporary if there is a possibility of improvement in health or earning capacity through use of artificial limbs, change of work, etc.

As considerable time may intervene before a case is passed upon and the pension received, the law provides that for needy persons advance payments on the pension may be made by municipal councils, and in case application for pension is refused these advances are not to have the force of poor relief unless applicant has given false information.

Of the first 1,000 cases disposed of by the court, 167 were disallowed, while pensions were granted for temporary invalidity in 121 and for permanent invalidity in 712. The following table shows the illnesses for which pensions were granted by the court:

NUMBER OF PERSONS GRANTED INVALIDITY PENSIONS FOR EACH CAUSE, BY TYPE OF PENSION AND SEX.

Takett ar minute lapper the	1 15	Num	ber of	awards	s for—		Figh	Total.	
Cause.	Temporary inva-		Permanent inva- lidity.			Wom.			
	Men.	Wom- en.	Total.	Men.	Wom- en.	Total.	Men.	Wom- en.	Total,
Illness causing body changes (especially diabetes and Basedow's disease). Chronic deforming rheumatism. Pulmonary tuberculosis. Other forms of tuberculosis. Malignant tumors (cancer). Mental diseases and neurosis. Brain and spinal cord ailments, etc. Heart and circulation. Diseases of respiratory organs. Diseases of digestive organs. Impaired eyesight (blindness). Skin diseases. Ailments due to accidents. Deformities (except due to accidents). Amputations. General debility or combination of ailments. Other causes.	13 5 2 4 10	2 2 11 13	2 2 24 18 2 6 15 6 6 1 5 8 2 3 8 7 7 1	12 37 40 12 9 27 91 23 19 6 1 14 3 12 19 10 13 7	5 118 29 9 5 17 71 24 6 2 8 18 1 1 4 11 4	17 155 69 21 14 44 162 47 25 8 9 32 4 16 30 14 32 13	12 37 53 17 11 31 101 26 23 6 4 21 4 15 24 13 14 10	7 120 40 22 5 19 76 27 8 3 10 19 2 4 14 8 19 8	19 157 36 38 16 50 177 53 31 9 14 40 6 19 18 21 33
Total	67	54	121	355	357	712	422	411	833

<sup>1</sup> For a short account of the provisions of this law see Monthly Labor Review, January, 1922, pp. 198,

<sup>199.

&</sup>lt;sup>2</sup> Social Forsorg, Copenhagen, Hefte No. 4, pp. 85–91. Meddelelsesblad for Arbejderforsikrings-Raadet, Arbejdsnaevnet, Arbejdsdirektoratet samt Arbejdsnaedet.

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As is shown in the table, the largest group, of which nearly all are permanent invalids, includes persons with brain or spinal afflictions. The next largest group consists of persons with deforming rheumatism of the joints, so prevalent in Denmark, nearly all of this group being permanent invalids.

Out of 67 cases of amputation, pensions were awarded in only 21. In cases of this sort, it is stated, the loss of a limb very seldom results

in a loss of two-thirds of the earning capacity.

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Attention is called to the relative number of awards to men and women. Thus in the group awarded pensions because of rheumatism women constitute the great majority; in the group pensioned because of amputations, the opposite is true.

## Accident Insurance in Norwegian Fishing Industry, 1920.

STATISTICS on fisherman's insurance published by the Norwegian State Insurance Institute<sup>1</sup> for the year 1920, show that 93,509 persons were insured, slightly less than for the years 1918 and 1919, but with this exception the largest since the enact-

ment of the insurance law of 1908.

Of the total insured 72,294 were deep-sea fishermen, 17,211 fjord fishermen, 682 whalers and sealers, and 3,322 "small shipping", which includes pilot and life-saving crews and all engaged in unloading fishing and other small vessels. Of the 93,509 only 50 were women, nearly one-half of whom belonged in the single township of Talvik in Finmark. During 1920, 288 accidents were reported, of which 203 were compensable. Of these, 127 resulted in death, all except 9 of the deaths being due to drowning. A total of 241,547 kroner (\$64,735, par) was paid out in benefits.

<sup>&</sup>lt;sup>1</sup> Norway. Riksforsikringsanstalten. Sjømannsforsikringen for året 1919. Ulykkesforsikring for sjømenn. Fiskerforsikringen for året 1920. Ulykkesforsikring for fiskere m. v. Christiania, 1922.

#### LABOR LAWS AND COURT DECISIONS.

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Power of United States Railroad Labor Board to Enforce Awards,

INDER the foregoing heading an account was given in the MONTHLY LABOR REVIEW for June, 1922 (pp. 160-163), of an action before the United States District Court for the Northern District of Illinois. The matter under consideration was the rejection by the Pennsylvania Railroad Co. of the finding of the Board in regard to the organization of an adjustment board for the determination of disputes on the subjects of wages and working con. The district court concluded that the decision (No. 218) undertaking to enforce the holding of a new election by the employees for the choice of their representatives on the adjustment board was beyond the powers of the Labor Board. However, the court held that the act itself was constitutional, thus rejecting one of the main contentions of the railroad company. The board proposed to publish, under authority of the statute, its findings in regard to the alleged disobedience of the road to its decision with regard to the election, and to prevent this the railroad obtained an injunction from the district court. The board thereupon appealed to the circuit court of appeals for the seventh circuit, and the decision, recently handed down, was unanimously in favor of the power of the board to take the action proposed, and the injunctive decree of the district court is reversed, with direction to dismiss the bill in which it was sought. Judge Alschuler set forth the facts, quoting the provisions of law involved in the contention and taking up first the claim of the railroad that if the statute makes the decision of the Labor Board binding upon the carriers and enforceable by appropriate proceedings, it is unconstitutional. The court found no question of the enforcement of the decision involved in the present case as far as the establishment of wages or working conditions is concerned. What was involved was the attempt of the board to secure an agreement between the carriers and their employees, which failing, the board might find itself called upon to act under its authority to intervene and decide upon and prescribe rules and working conditions. The question of enforcement was therefore not properly before the court, so that no contention of unconstitutionality on this score could be considered.

It was pointed out that the injunction apparently assumed that the Labor Board had acted under section 301 of the transportation act, which contemplates the joint submission of a dispute. However, the law elsewhere (sec. 303) provides for the determination of grievances, rules, and working conditions in any one of four ways, i. e., on application of either party, on petition by not less than 100 unorganized employees, on motion of an adjustment board, and lastly on request of the Labor Board that the adjustment board take action where the dispute seems likely to interrupt commerce. These provisions of section 303 relate to the adjustment boards and their mode

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of taking jurisdiction over a dispute. Section 307 (a) authorizes the Labor Board to act where an adjustment board certifies its inability to reach a decision or where the Labor Board reaches the conclusion that the adjustment board has failed or is not using due diligence. The board is also authorized to take jurisdiction where no adjustment board is organized, such action being taken either on application as above or on the board's own motion where the dispute is likely substantially to interrupt commerce.

The court found that these provisions amply justified the exercise of the board's authority, taking the statute in all its provisions, and "it is not material whether it [the dispute] comes to it under section 301 or under any other or all the sections of the title." There was, therefore, no question as to the power of the board if the dispute was

covered by the act, and this was the next point considered.

Judge Alschuler described the conditions prior to the passage of the transportation act, when the roads were under Federal control. On the termination of Governmental control undetermined serious disputes respecting wages and working conditions were pending, and on the creation of the Labor Board "it seems that as if by common consent the undetermined disputes were by it taken up and the hearings proceeded." The questions were divided, according to the consent and desire of both parties to the controversy, into two parts, one involving wages and the other rules and working conditions. This division by consent "indicates clearly that the whole subject was then regarded as before the board, to be dealt with by it." This being the case, the railroad's contention that the Labor Board had no power to direct the continuance of existing rules and working conditions until further order, must fail. Wages and working conditions are also so closely interwoven that the determination of wages must be regarded as predicated upon the continuance in effect of the rules and working conditions then existing, "and it was proper for the board to fix the wage with reference to their continuance till changed by agreement or otherwise."

The next contention disposed of was that of the company that it had ultimately made an agreement with its employees respecting rules and working conditions, thus terminating the dispute, so that the Labor Board had lost whatever jurisdiction it might have had. However, at the time that Decision No. 119 was promulgated, calling upon employers and employees to make agreements as to rules and working conditions, there was obviously jurisdiction, and the request that agreements be arrived at would not dismiss the controversy from the jurisdiction of the board. Moreover, the question of employee representation was necessarily included in the controversy over rules and working conditions, and it was on this point that the real contest hinged. The election of employee representatives under the system arranged for by the company was found by the board not to have been participated in by a majority of the employees, and this contention was not disputed, though the company maintained that "since all had opportunity to vote, this made no difference." company election was held to be void "because it restricted the choice of representatives to natural persons and to actual employees of the ; on the other hand, the employees' election was void for restricting the choice of representation to an organization, and Decision

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No. 218, for these reasons, "directed another election to be held, prescribing the form of ballot." The company contended that the board was in nowise concerned in the matter of the election of representatives, it being wholly procedural and "beyond its jurisdiction." This contention the court rejected. "It was eminently proper that the board, either by general rule or otherwise, indicate in its best judgment how such representation should be manifested and the election conducted." Admittedly the employer might decline to confer with the representatives chosen, "for any reason, sound or capricious," but this would simply mean that the method of adjustment by agreement had failed, the dispute still remaining with the board just as though there had been no undertaking to bring the parties to a mutual understanding. The company further contended that it might of its own motion establish rules and working conditions, upon the termination of Government control, which would be effective until and unless changed under the terms of the transportation act. and that the board could not intervene except on complaint and hear. The court ruled that to accept this contention would be to recognize the power of the company to oust the board of its jurisdic. tion of a pending dispute simply by promulgating new rules and work. ing conditions—a position that would make the provisions of the transportation act, relative to the adjustment of disputes, without practical effect.

"It follows that the Labor Board did not as to the matters involved transcend its power and function, and that relief under the bill [for

an injunction] should have been denied."

# Compensation Awards in Case of Independent Contemporaneous Employments.

NUMBER of cases have been reported in which there was an injury to a workman serving several employers jointly, the basis for the awards being the total earnings of the injured person from all the employers, the benefit being payable, however, by the employer in whose service he was at the time of the injury. This principle was applied in a California case (Western Metal Supply Co. v. Pillsbury, 156 Pac. 491), where a night watchman employed by several employers independently was killed by a burglar on the premises of one; also by the Massachusetts Supreme Court (Gillen v. Ocean A. & G. Corp., 102 N. E. 346), where a longshoreman rendered service to various employers in the course of a week, averaging \$13 wages, though the amount earned while working for the employer whom he was serving when injured was not more than \$8 per week. Compensation was awarded on the total earnings over the contention that the employer was liable only to the extent of his own wage payments. A distinction was drawn where there was full regular employment at a standard rate by one employer, while extra work was taken on as nightwork for another. An injury received while in the latter employment was held to be compensable only at the rate of earnings in that specific service, disregarding the majority employment and earnings (King's Case, 125 N. E. 153).

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In each of these cases the single employer in whose service the injured man was at the time of the receipt of his injury was held solely responsible for the payment of benefits. A case recently before the Industrial Accident Commission of California involved a different variation in circumstances, and led to an award for which two principal employers were held severally liable, each for a proportionate amount of the award. A young man using a motor cycle with side car made a trip of 60 miles each way daily to bring cream from a ranch of the owner to her establishment in Santa Barbara where the cream was bottled and sold. The boy increased his earnings by regularly delivering newspapers for the publishers along the route of his journey. Besides this there was incidental delivery of packages, though this was irregular and not a part of his established business, which consisted of the transportation of cream and the delivery of papers. Over various contentions, an award was made against both regular employers based on the amount of the fixed wages paid by each, the commission holding that the injured boy was an employee and not an independent contractor, and that, though he was at the moment on a piece of road where he was in the interest of the creamery rather than of the newspaper company, he was nevertheless in the employment of the latter company; also that there was no sufficient reason for joining other persons who might have on that particular day intrusted packages to him for delivery.

# Fixing Rates of Wages of Employees on Public Works in Wisconsin.

THE Supreme Court of Wisconsin recently had before it an appeal from a lower court involving the validity of an ordinance of the city of Milwaukee, proposing to fix the wages of employees on public works, the same to be "not less than the prevailing wage in this city for such skilled labor; said prevailing wage to be determined by the wage paid to members of any regular and recognized organization of such skilled laborers for such skilled labor." It was said by the court that the proposition of fixing a minimum wage was within the power of the city, assuming that the power would be exercised "within the bounds of what is reasonable, fair, and proper." It was held here, however, three justices dissenting, that there was an unlawful delegation of authority to a nonlegislative body, namely, the labor unions of the city, by whom the rates would actually be fixed, even though the ordinance also provided that before any rate became effective, "it shall first be determined and approved by a majority vote of the members of the common council." (Wagner v. City of Milwaukee, 188 N. W. 487.) There was recognition of the fact that there is a lawful delegation of power to proper bodies created under the Government to determine certain facts or conditions, but a distinction was found to exist.

The distinction between the attempted delegation here to labor unions to determine and fix the prevailing wage scale for the city of Milwaukee and the lawful vesting in some administrative body, a part of the Government itself, appointed by or under the control of the legislative body to determine when certain facts or conditions are within the law, such, for eaxmple, as the various commissions now performing such important functions in our present-day administration of public affairs, is too manifest and plain to need further mention.

We have considered and disposed of the questions presented upon the view that the ordinances mean what the great mass of mankind would consider them to mean and as representing to the labor unions in particular and to the community at large that, when the common council undertakes to fix any prevailing wage scale, they will fix that already established by such labor unions.

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# Regulations Governing Factory Employment in the Punjab, India.

CCORDING to a consular report of recent date the 1922 amendments of the Indian factory act of 19111 will be put into effect in the factories throughout the Punjab after September 10. 1922, superseding the Punjab factory rules of 1919.

The new regulations provide for semiannual inspection by Govern. ment inspectors of every factory in the Province and the penalties for infringement of the regulations include fines and the suspension of

the license for operation.

The new regulations require that (1) adequate provisions shall be made to secure the health and safety of the operatives; (2) children employed shall have been duly certified by a physician and none allowed to work who are unfit; (3) each factory shall keep a register of all the persons employed and the hours of work; (4) periodical rest periods shall be allowed all workers and the limits of the daily hours of work shall not be exceeded.

The rules governing sanitary conditions provide for painting workrooms, whitewashing and keeping clean all buildings and yards, and furnishing clean drinking water and proper sanitary accommodations. There are detailed regulations, also, as to the amount of floor space for each individual in order to prevent overcrowding, for means of escape in case of fire, and for safeguarding machinery in textile fac-

tories and cotton gins.

# Amendment to Eight-hour Law of Netherlands.

HE eight-hour law of The Netherlands 1 which went into effect October 24, 1920, has, according to the July, 1922, issue of the British Ministry of Labor Gazette (p. 290), been amended by an act of May, 1922. The amendments affect those sections relating to the limitation of working hours. The hours of labor in factories, workshops, bakeries, and offices, which the original act fixed at not exceeding 8 per day and 45 per week, are, by the amendment, raised to 8½ per day and 48 per week.

Also the provisions with regard to the working of overtime are relaxed in factories and workshops and in seasonal occupations. Under the provisions of section 26 of the 1919 act the Minister of Labor was empowered to permit specified factories or workshops, for a period not exceeding two years from the date on which the act became effective, to work overtime not in excess of 1 hour a day and 5 hours a The period is now increased to 4 years and the overtime to 1½ hours per day and 7 hours per week over the new "normal" work-

See Monthly Labor Review, June, 1922, pp. 168, 169.
 For a short account of this law see Monthly Labor Review, January, 1921, p. 123.

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e reinder was eriod effecirs a ie to corking time of 8½ hours per day and 48 hours per week. In seasonal occupations and on emergency work, under "special circumstances," if both the workers' and employers' associations or "in default of these a body adequately representative of the employers and workpeople," are of the opinion that a deviation from the regular working hours is desirable, a permit for the purpose may be granted by the Minister of Labor. In no case, however, may the hours exceed the following: For young people under 16, 10 hours per day and 48 per week; for women, 10 hours per day, 55 per week, and 2,500 per year; for men, 11 hours per day, 62 per week, and 2,500 per year. Under the clause in the 1919 act which states that in urgent cases where it is impossible to apply for a permit, the Minister of Labor may grant a permit for one year for the employment of men for more than the normal hours, this permission is limited to 24 times a year. The new act raises the maximum to 60. The chief district labor inspectors on their own authority may now grant permits for overtime for 14 instead of for 6 days.

The provisions with regard to night and Sunday work and work on Saturday afternoons are also relaxed for factories and workshops. The facilities with regard to overtime in offices and bakeries, and for work done outside factories and workshops, offices, and bakeries, are considerably increased. The provisions with regard to the prohibition of night work in bakeries are to be less stringent in the future.

# Decree Concerning Labor on Spanish Vessels.1

THE royal decree, signed May 31, 1922, approving the regulation covering labor on board Spanish cargo and passenger vessels, was issued upon the recommendation of a commission of employers and employees in the shipping trade to amend the royal decree of October 10, 1919, and to clear up some disputed points.

The decree regulates hours, overtime, discharge, Sunday rest, leave of absence, and age limit and applies to cargo and passenger vessels,

but not to fishing vessels, tugboats, and the like.

Hours.—Except in cases of emergency when the ship is actually in danger, the workday shall not be more than 12 hours when at sea, or 10 hours when in port. In the latter instance the day may be extended to 12 hours on the day of arrival or departure, without payment for overtime, but not more than three times a week. On board vessels ranging from 25 to 300 tons and engaged in coastwise trade, the hours of labor for the crew shall be not more than 60 hours nor Nine hours of deck labor constitute a more than 6 days per week. working day on deep-sea vessels. One peseta (19.3 cents, par) per hour is to be paid for overtime work and all such extra labor is to be recorded in the ship's register, which in turn must be visaed by the local port officials or by Spanish consuls in foreign countries. Machinists are required to work 8 hours per day, plus the time necessary for the discharge of cinders; in port they shall work at the rate of 48 hours per week. The length of the watch at sea shall not exceed 6 hours and rest periods shall not be of less than 4 hours' duration.

<sup>&</sup>lt;sup>1</sup> Spain. Gaceta de Madrid. Madrid, June 15, 1922, pp. 972-974.

Discharge.—Members of the crew shall be employed in accordance with the ship's articles, which they sign, and if discharged for any reason except negligence, inefficiency, insubordination, or as otherwise provided, shall receive an extra month's wage plus maintenance during that time. If discharged because the ship is tied up for lack of freight or a profitable cargo or because the ship will be delayed for repairs for more than one month, they shall be entitled to transportation to the port of enrollment and maintenance during the voyage.

Every captain, deck officer, or machinist if discharged without just cause after three months' service is entitled to one month's full salary, plus the entire salary for the month in which he is discharged. An exception is made in case the navigation of the vessel is discontinued for special reasons or because of the termination of contracts with the officers in question. Radio operators are to be considered as officers.

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Sunday rest.—Sunday rest is obligatory in port, except that when for special reasons Sunday labor is required, the crew shall be entitled to a day of rest during the week. Only indispensable labor is to be performed when the ship is on the high seas. This Sunday work shall ordinarily be limited to 2 hours. Except in serious emergencies extra work on Sunday is to be compensated at the rate of 1 peseta (19.3 cents, par) per hour.

Leave of absence.—Deck officers and machinists are entitled to 1 month's leave of absence with full pay after 12 months' continuous service with the same company. The leave period does not include the time necessary for the trip to and from the place where the leave is to be spent, provided such time does not exceed one week. Travel expenses are to be paid by the shipowner, who shall decide when this leave of absence shall take place. In coastwise shipping, the shipowner may grant leave not to exceed 3 days at any regular port, traffic conditions permitting.

Age limit.—The age limit is to be from 14 to 55 years. Minors under 14 years of age, however, may be permitted to work if they comply with certain requirements. Any one over 55 years of age

must prove his physical fitness for his duties.

STRIKES AND LOCKOUTS.

Strikes in Buenos Aires in 1921.

A N OFFICIAL report 1 on strikes in the Federal capital, of Argentina in 1921 shows that 86 strikes affecting 139,751 workers and causing a loss of 976,270 working-days occurred during the year. As compared with 1920 this represents a decrease of 120 strikes and an increase of 5,736 strikers.

The table following shows the number of strikes and strikers and the average number involved in each strike during the period 1917

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NUMBER OF STRIKES AND STRIKERS IN BUENOS AIRES, 1917 TO 1921.

Buchangani out		Stri	Strikers.		
Year.	Number of strikes.	Number.	Average per strike.		
1917	138 196 367 206 86	136, 062 133, 042 308, 967 134, 015 139, 751	985 678 841 650 1,625		

Twelve of the strikes were of a general character and involved 128,100 persons. There were 20 strikes in the clothing industry, 16 in transport and communications, 15 in the food industry, and 10 in metallurgy. By far the largest number of persons (55,639) were affected by the strikes in transport and communications.

Wages and organization were the principal causes, 37 strikes affecting 6,727 workers being on account of wage disputes, and 53 strikes affecting 132,773 workers being due to disputes concerning organization

In general the strikes were unsuccessful from the standpoint of the workers, only 12 being won by the workers; 5 were partly successful, and 64 were lost. Five were still pending at the close of the year.

Most of the strikes were of short duration, 54 of them being settled in less than 20 days. Only 1 lasted more than 80 days.

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<sup>&</sup>lt;sup>1</sup> Argentina. Crónica Mensual del Departamento Nacional del Trabajo. Buenos Aires, May, 1922 pp. 861-866.

#### CONCILIATION AND ARBITRATION.

Conciliation Work of the Department of Labor in July, 1922.

By Hugh L. Kerwin, Director of Conciliation.

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THE Secretary of Labor, through the Division of Conciliation, exercised his good offices in connection with 17 labor disputes during July, 1922. These disputes affected a total of 13,768 employees. The table following shows the name and location of the establishment or industry in which the dispute occurred, the nature of the dispute (whether strike or lockout or controversy not having reached strike or lockout stage), the craft or trade concerned, the cause of the dispute, its present status; the terms of settlement, the date of beginning and ending, and the number of workmen directly and indirectly affected.

On August 1, 1922, there were 34 strikes before the department for settlement and in addition 10 controversies which had not reached the strike stage. The total number of cases pending was 44.

LABOR DISPUTES HANDLED BY THE UNITED STATES DEPARTMENT OF LABOR THROUGH ITS DIVISION OF CONCILIATION, JULY, 1922.

Company or industry and location.	Nature of controversy.	Craft concerned.	Cause of dispute.	Present status.
Cork cutters, Kansas City, Mo	Threatened strike.	Carpenters	Union jurisdiction	Adjusted.
Pile drivers, Bremerton, Wash Barbers, New York City	Controversy. Threatened strike.	Pile drivers Barbers	Wage below scale 10 per cent wage cut.	Pending. Adjusted.
Millinery workers, New York City	Strike	Millinery work- ers.	Union recognition and discrimina- tion.	Do.
Cork cutters, Pittsburgh, Pa	Threatened strike.	Building trades.		Pending.
Carpenters, Baltimore, Md	Strike	Carpenters	Ask 10 cents per hour raise.	Adjusted.
Carpet weavers, Hardwick & McGee, Philadelphia, Pa.		Carpet weavers.	•••••	Pending
40 clothing firms, Philadelphia, Pa	do	Clothing work- ers.	Wages, hours	Do.
Galvanizers, De Kalb, Ill	do	Steel workers	12-hour shift	Unclassi- fied.
Traction companies, Chicago, Ill	do	Traction em- ployees.	Wage cut, 9 hours	Adjusted
4 restaurants, Fresno, Calif	do	Culinary work- ers.	New agreement	Pending.
Gershitz Contract Shop, Bayonne, N. J.	do	Shirt makers	Ask closed shop and former wage.	Do.
Royal & Pinkington, Mt. Holly, N. J	do	Tapestry weav- ers.	Ask closed shop	Do.
Shirt makers, Corona, N. Y	do	Shirt makers	44 hours, minimum wage.	Do.
70 firms, hat-frame workers, New York City.	do	Ladies' hat- frame makers.	do	Do.
Western Iron Works, New York City	Controversy.		Compulsory affilia- tion with union.	Do.
Cigar makers, Cincinnati, Ohio	do	Cigar makers	Agreement and shop practice.	Adjusted

LABOR DISPUTES HANDLED BY THE UNITED STATES DEPARTMENT OF LABOR THROUGH ITS DIVISION OF CONCILIATION, JULY, 1922—Concluded.

Company or industry and location.	Terms of settlement.	Date	of—	Workmen affected.	
(ompany of manory and rocavism		Begin- ning.	Ending.	Direct-	Indi- rectly.
Cork cutters, Kansas City, Mo.  Pile drivers, Bremerton, Wash Barbers, New York City  Millinery workers, New York City  Cork cutters, Pittsburg, Pa.  Carpenters, Baltimore, Md  Carpet weavers, Hardwick & McGee.	Carpenters waived claim  Agreement concluded On employees' terms  Increase of 10 cents granted, but hours lengthened.	1922. June 26 June 26 June 23do June 26 July 1	July 1 July 27 July 14	100 26 600 23 475	600 400 7
Philadelphia, Pa. 40 clothing firms, Philadelphia, Pa Galvanizers, De Kalb, Ill	2,500 have returned Settled before commissioner arrived.			8,000	******
Traction companies, Chicago, Ill	8 hours; 10 cents cut accepted.	July 1	Aug. 4		
4 restaurants, Fresno, Calif	All return except 55	June 1 July 17 July 9 July 19 July 26		60 170 60 300 650	350 900
City. Western Iron Works, New York City Cigar makers, Cincinnati, Ohio	Interpretation of arbitra- tration clause arranged satisfactorily.	July 22 July 20	July 26	1,000	
Total	************			11,511	2, 257

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### IMMIGRATION.

Statistics of Immigration for the Fiscal Year Ended June 30, 1922,

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BY W. W. HUSBAND, COMMISSIONER GENERAL OF IMMIGRATION.

THE following tables show the total number of immigrant aliens admitted into the United States and emigrant aliens departed from the United States during the fiscal year 1921-22. The tabulations are presented according to the countries of last permanent or future permanent residence, races or peoples, occupations, and States of future permanent or last permanent residence. The last table (Table 6) shows the number of aliens admitted under the per centum limit act of May 19, 1921, from June 30 to August 9.

TABLE 1.—INWARD AND OUTWARD PASSENGER MOVEMENT DURING THE FISCAL YEAR ENDING JUNE 30, 1922, AND DURING THE SIX MONTHS ENDING DECEMBER 31, 1921.

Arrivals.					tures.				
Period.	Immi- grant aliens admit- ted.	Non- immi- grant aliens admit- ted.	United States citizens arrived.	Aliens de- barred.	Total.	Emi- grant aliens de- parted.	Non- emi- grant aliens de- parted.	United States citizens de- parted.	Total.
July to December	200, 121	65, 287	133,111	6,678	405, 197	137,878	86,749	162,735	387,36
January February March April May June	15, 928 10, 792 14, 803 18, 967 24, 169 24, 776	6,705 6,851 9,736 10,199 12,711 11,460	12,057 17,573 21,884 19,889 19,837 19,212	892 991 1,069 1,436 1,183 1,482	35, 582 36, 207 47, 492 50, 491 57, 900 56, 930	7,708 7,063 8,269 13,232 12,025 12,537	7,877 7,360 7,427 11,730 11,122 14,407	15, 519 19, 061 20, 993 26, 197 29, 643 35, 329	31, 10 33, 48 36, 68 51, 15 52, 79 62, 27
Total	309, 556	122,949	243,563	13,731	689,799	198,712	146,672	309, 477	654,86

TABLE 2.-LAST PERMANENT RESIDENCE OF IMMIGRANT ALIENS ADMITTED AND FUTURE PERMANENT RESIDENCE OF EMIGRANT ALIENS DEPARTED, DURING SPECIFIED PERIODS, BY COUNTRIES.

	Immi	grant.	Emig	grant.
Countries.	June 1-30, 1922.	July 1, 1921, to June 30, 1922.	June 1-30, 1922.	July 1, 1921, to June 30, 1922.
Austria	547 11 20	5,019 5,756 1,541 297	44 153 103 12	579 4,307 1,203 660
Buigana Czechoslovakia Denmark Finland	84 187 168	12,541 2,709 2,767	371 70 105	7,846 690 1,179
France, including Corsica.	195	4,220 17,931 3,457	292 298 533	2,557 4,362 7,506
NetherlandsNerway	164 • 191 463	40,319 1,990 5,292	3,661 80 83	53,651 860 1,427
Poland Portugal, including Cape Verde and Azores Islands Rumania	666 93 774	28,635 1,950 10,287	1,077 171 142	33,581 5,877 3,795
Russia. Spain. Sweden.	2,721 62 303	17,143 665 6,624	435 283 362	6,407 6,793 1,903
Switzerland. Turkey in Europe. United Kingdom: England.	130 58	3,398 1,660	78	886 201
Ireland. Seotland. Wales	1,406 1,318 921 91	15,249 10,579 9,018 886	856 388 81 7	6,434 2,182 915 60
Yugoslavia. Other Europe.	16 21	6,047 405	446 17	9,733 703
Total Europe	12,540	216, 385	10, 154	166, 297
China	1,108 30 9	4,406 6,716 360 1,998 783	373 351 8 87 10	6, 362 4, 368 267 1, 731 86
Total Asia.	1,798	14, 263	829	12,814
Africa. Australia, Tasmania, and New Zealand	18 18	520 855	10 59	133 645
Pacific Islands, not specified	5,050 159	60 46,810 970	2 427 108	34 4,480 955
Mexico. South America. West Indies	4,098 213 878	19,551 2,668 7,449	278 129 541	6, 285 1, 787 5, 252
Other countries	24,776	25 .	•••••	30
		309, 556	12,537	198,712
Males	13,085 11,691	149,741 159,815	7,755 4,782	143, 223 55, 489

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Total.

387,362

31, 104 33, 484 36, 689 51, 159 52, 790 62, 273 54, 861

TABLE 3.—IMMIGRANT ALIENS ADMITTED TO AND EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES DURING PERIODS SPECIFIED, BY RACES OR PEOPLE,

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bigging I awalind	Immigrant.		Emigrant,	
Race or people.	June 1-30, 1922.	July 1, 1921, to June 30, 1922.	June 1-30, 1922.	July 1921 June 192
African (black)	617	5, 248	278	2
rmenian	11	2, 249	22	-
ohemian and Moravian (Czech)	37	3,086	118	4
ulgarian, Serbian, and Montenegrin	12	1,370	318	5
hinese	599	4, 465	291	6
roatian and Slovenian.	28	3,783	83	3
uban	58	698	117	
almatian, Bosnian, and Herzegovinian	23	307	39	
utch and Flemish	246	3,749	176	2
ast Indian	9	223	2	
nglish	3, 234	30, 429	1,261	9
innish	205	2,506	137	1
rench	1, 150	13,617	365	3
erman	2,756	31, 218	404	0.0
reek	27	3,821	532	7
lebrew	4, 136	53, 524	67 381	
rish	2,064	17, 191 6, 098	599	2
	213	35,056	3, 087	7
talian (south)	1.097	6, 361	348	46
orean	26	88	7	4
ithuanian.	177	1,602	211	4
lagyar	44	6, 037	179	4
lexican		18, 246	229	
acific Islander	2,020	7	. 12	1
olish	148	6,357	1,018	31
ortuguese	92	1,867	222	(
umanian	19	1,520	125	4
ussian	249	2,486	224	2
	25	698	12	
uthenian (Russniak)	1,108	16,678	549	4
eotch	1,623	15, 596	140	1
lovak	54	6,001	248	3
panish	178	1,879	382	7
panish-American	189	1,446	188	1
yrian	. 26	1,334	52	1
urkish	2	40	22	
Velsh	84	956	18	
Vest Indian (other than Cuban)	91	976	51	
ther peoples	31	743	33	1
Total	24,776	309, 556	12,537	198

TABLE 4.—IMMIGRANT ALIENS ADMITTED AND EMIGRANT ALIENS DEPARTED DUR-ING THE FISCAL YEAR ENDED JUNE 30, 1922, BY OCCUPATIONS.

PARTED EOPLE.

July 1, 1921, to June 30, 1922.

> 2, 183 4, 246 5, 876 6, 877 6, 879 9, 668 1, 2, 448 2, 1218 9, 668 1, 2, 448 4, 533 3, 7, 7, 830 4, 730 4, 730 4, 730 4, 169 3, 451 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 1, 396 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2, 219 2,

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Occupation.	Immi- grant.	Emi- grant.	Occupation.	Immi- grant.	Emi- grant.
Professional.			Skilled.—Concluded.		
Actors	704	158	Miners	2,227	3, 257
Architects	127	63	Painters and glaziers	881	346
Clergy	1,204	526	Pattern makers	54	12
Editors	66	23	Photographers	108	54
Electricians	713	131	Plasterers	170	39
Engineers (professional)	1, 103	379	Plumbers	219	65
Lawyers	131	57	Printers	409	77
Literary and scientific persons	392	154	Saddlers and harness makers	96	21
Musicians	714	229	Seamstresses	1,972	134
Officials (Government)	744	258	Shoemakers	2,287	826
Physicians	458	157	Stokers	348	195
Sculptors	164	111	Stonecutters	162	93
TeachersOther professional	2, 118	456	Tailors	4, 331	981
Other professional	2, 317	611	Tanners and curriers	99	28
m-4-3			Textile workers (not specified)	131	67
Total	10, 955	3, 313	Tinners	176	40
Skilled.			Tobacco workers	20	1
Skilled.			Upholsterers	78	19
D-1-one	1 000		Watch and clock makers	290	34
Bakers	1,629	547	Weavers and spinners	1,262	532
Rlacksmiths	1, 168	375	Wheelwrights	7	8
Bookbinders	880	302	Woodworkers (not specified)	89	28
Brewers	97	18	Other skilled	2,472	1, 250
Butchers	35	21	M-4-1		
abinetmakers	1,059	373	Total	51, 588	17, 958
arpenters and joiners	3, 930	146	16:		
igarette makers.	3, 930	1, 184	Miscellaneous.		
ligar makers	147	5	A manufa		
igar packers.	7	215	Agents	611	207
Herks and accountants	9, 444	2,027	Bankers	125	136
)ressmakers	3,726	387	Draymen, hackmen, and team- sters.	308	04
Engineers (locomotive, marine,	0,120	901	Farm laborers	10, 529	9 600
and stationary)	931	215	Farmers	7, 676	2,690 5,036
urriers and fur workers	131	38	Fishermen	640	154
ardeners	431	221	Hotel keepers.	165	97
lat and can makers	165	20	Laborers	32,726	100, 058
ron and steel workers	751	195	Manufacturers	202	152
ewelers	146	86	Manufacturers. Merchants and dealers.	7, 278	4, 328
ocksmiths	540	40	Servants	44, 531	5, 212
lachinists	1, 291	948	Other miscellaneous	11, 172	4, 343
ariners	2, 845	1,224	o said anadomino do se	11,110	7, 310
asons	1,411	359	Total	115, 963	122, 497
lechanics (not specified)	1,683	709		220,000	100, 101
letal workers (other than iron.	,		No occupation (including wom-		
ctool and tin)	187	58	en and children)	131,050	54, 944
steel, and tin)					
illers	177	79		202,000	

TABLE 5.—FUTURE PERMANENT RESIDENCE OF IMMIGRANT ALIENS ADMITTED AND LAST PERMANENT RESIDENCE OF EMIGRANT ALIENS DEPARTED DURING SPECI. FIED PERIODS, BY STATES AND TERRITORIES.

	Imn	nigrant.	nt. Emi	
State and Territory.	June 1-30 1922.	July 1, 1921, to June 30, 1922.	June 1-30 1922.	July 1921, June : 1922
Alabama Alaska Arizona Arkansas California Colorado Connecticut Belaware District of Columbia Florida Georgia Hawaii daho Illinois Illinois Illinois Indiana Dowa Cansas Centucky Ouisiana Saine Sarsack Sassissippi Sasour Datana Doraska Wada W Hampshire W Jersey W Mexico W York Tch Carolina Tch Dakota  Ippine Islands to Rico de Island Tth Carolina Tth Dakota Ilppine Islands Tto Rico Ode Island Tth Carolina Tth Dakota Ilppine Islands Tto Rico Ode Island Tth Carolina Tth Dakota Ilppine Islands Tto Rico Ode Island Tth Dakota Ilppine Islands Tto Rico Ode Island Tth Dakota Inslands Inslan	21 260 9 2, 021 86 317 21 99 164 20 652 42 1, 415 140 69 540 17 157 97 145 27 180 1, 010 70 5, 694 21 95 639 45 26 639 462 17 157 97 145 27 180 1, 010 70 5, 694 21 95 639 45 639 45 639 45 639 46 17 180 1, 010 1, 010	419 163 2, 034 180 23, 624 1, 193 5, 719 388 1, 446 2, 399 373 373 2, 800 22, 410 2, 487 2, 174 976 361 964 4, 557 1, 790 21, 715 12, 187 5, 152 2, 558 2, 774 1, 007 1, 926 15, 327 1, 926 15, 327 1, 926 15, 327 1, 926 15, 327 1, 926 15, 327 1, 926 11, 606 127, 539 316 3, 208 3, 208 3, 208 163 618 3, 208 163 618 3, 208 163 618 3, 208 163 618 3, 208 163 618 3, 208 163 618 3, 208 1, 421 837 1, 479 1, 264	2 3 29 5 5 635 41 249 100 57 315 8 390 4 702 6 8 8 46 1,356 221 78 6 81 224 22 42 448 12 5,110 3 12 428 18 66 1,183 711 2 8 6 6 126 38 6 11	1, 0 13, 3 5, 7 3 41, 9 11, 14 14, 03 11, 14, 17 14, 03 11, 14, 17 14, 03 11, 14, 17 14, 03 14, 17 14, 03 14, 17 14, 03 14, 17 14, 03 14, 17 14, 03 14, 17 14, 17 15, 18 16, 788 11, 18 10, 18 11,
ning.	33	6, 109 1, 460 4, 374 542	145 79 83 36	2, 551 1, 778 2, 145 244
	776 30	9, 556		W11

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orde T] auto TABLE 6.—STATUS OF THE IMMIGRATION OF ALIENS INTO THE UNITED STATES UNDER THE PER CENTUM LIMIT ACT OF MAY 19, 1921, AS EXTENDED BY PUBLIC RESOLUTION NO. 55, SIXTY-SEVENTH CONGRESS, APPROVED MAY 11, 1922.

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July 1, 1921, to June 30, 1922.

6, 998 1, 850 88

65,886

10, 203

To August 9, 1922.

Country or region of birth.	Number admit- ted from Aug. 1 to 9, 1922, inclusive.	Number admit- ted from July 1 to Aug. 9, 1922, inclusive.	Number admis- sible annually.	Number admis- sible during remain- der of current fiscal year.
Albania. Armenia (Russian). Austria. Belgium Bulgaria. Czechoslovakia. Danzig, Free City of Denmark Finland.	19 185 135 16 956 5 77 82	110 62 732 427 57 3,440 32 398 540	288 230 7,451 1,563 302 14,357 301 5,619 3,921	178 168 6, 719 1, 136 245 10, 917 269 5, 221 3, 381
Fiume, Free State of France Germany Greece Hungary Jeeland Italy Luxembourg	215 483 543 274 10	554 2,602 1,196 1,144 22 9,833 25	5,729 67,607 3,294 5,638 75 42,057 92	5, 175 65, 005 2, 098 4, 494 53 32, 224 67
Memel region Netherlands Norway Poland Eastern Galicia Pinsk region Portugal (including Azores and Madeira islands) Rumania	48 260 533 38 24 494 424	276 761 1,710 92 85 977 1,439	150 3,607 12,202 21,076 5,786 4,284 2,465 7,419	145 3, 331 11, 441 19, 366 5, 694 4, 199 1, 488 5, 980
Bessarabian region. Russia (European and Asiatic). Esthonian region. Lithuanian region. Depain (including Canary Islands). Sweden.	501 4 29 205 91 117	62 2,358 21 109 596 271 1,332	2, 792 21, 613 1, 348 1, 540 2, 310 912 20, 042	2, 730 19, 255 1, 327 1, 431 1, 714 641 18, 710
Switzerland. United Kingdom Yagoslavia. Yagoslavia. Other Europe (including Andorra, Gibraltar, Liechtenstein, Malta, Monaco, and San Marino). Palestine.	1,011 256	433 5,817 1,116 25 24	3, 752 77, 342 6, 426	3, 319 71, 525 5, 310 61 33
byria.  Turkish-Armenian region).  Turkish-Armenian region).  Turkish-Armenian region).  Ther Asia (including Cyprus, Hedjaz, Iraq (Mesopotamia), Persia, Rhodes, and any other Asiatic territory not included in the barred zone. Persons born in Asiatic Russia are in-	55 256	189 526	928 2,388	739 1,862
cluded in the Russia quota.)	13 17	31 42 5 91	81 122 121 279	50 80 116 188
lew Zealand and Pacific islands	2	18	80	62
Total	9,478	39, 586	357,803	318, 217

# Canada's New Immigration Regulations.

THE Canadian Labor Gazette of June, 1922, states that in the new immigration regulations an occupational test has been substituted for the money qualification stipulated by the order-in-council of December, 1919.

The new provisions favor immigrants from Great Britain and autonomous British Dominions and agricultural and domestic

workers. The regulations will not allow any immigrant to land in Canada except—

1. A bona fide agriculturalist entering Canada to farm and with sufficient means

to begin farming in Canada.

2. A bona fide farm laborer entering Canada to follow that occupation and with reasonable assurance of employment.

3. A female domestic servant entering Canada to follow that occupation and with reasonable assurance of employment.

### Immigration officers, however, are authorized to admit—

1. The wife and family of any person legally admitted to and resident in Canada who is in a position to receive and care for his dependents.

2. The national of any country in regard to which there is in operation a special

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treaty or agreement or convention regulating immigration.

3. Any British subject entering Canada directly or indirectly from Great Britain or Ireland, the United States of America or any self-governing British Dominion or Newfoundland, who shall satisfy the immigration officer in charge at the port of entry

that he has sufficient means to maintain himself until employment is secured.

4. Any American citizen entering Canada from the United States, provided it is shown to the satisfaction of the minister of immigration and colonization that his

labor and service is required in Canada.

The passports of immigrants from Europe, except those from Great Britain or any of its autonomous dominions or from the United States, must be examined and viséd in Europe by a Canadian Government immigration official stationed in that country. All other immigrants must have their passports approved by a British consular officer. "A fee of \$5 is chargeable for Canadian examination and visé of passport."

Asiatic immigrants, with the exception of those from a country with which some special treaty agreement exists, must have \$250

in their possession when they land.

In order to relieve the farm labor shortage in Saskatchewan, the Provincial Government has arranged to bring over immigrants directly from the dairy farms and small holdings of The Netherlands. It is thought that with some little training these men will develop into very capable agriculturists. Reports have already been received that a considerable number of Dutch and Norwegian agricultural workers were arriving in Canada.

A central Canadian Government immigration office has recently been opened in Antwerp, Belgium, which is assisting in securing the

desired class of immigrants.

Canadian Labor Circuit on June, 1922, states that in the

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### WHAT STATE LABOR BUREAUS ARE DOING.

#### Georgia.

THERE was a very considerable reduction in manufactured products and in total wages paid in Georgia during the calendar wear 1921, according to the tenth annual report of the commissioner of commerce and labor of that State.

Industrial conditions in Georgia reflected those experienced in all parts of the country. The depression began in the latter part of

1920 and lasted all through 1921.

The report contains statistics regarding textile mills and allied industries; cotton oil mills; fertilizer factories and mixing plants; foundry, machine, and general repair shops; brick, tile, and sewer piping; cement and clay products; marble and granite quarries and marble yards; bottling works and manufacturers of soft drinks; buggies, carriages, carts, wagons, and materials; and electric power and light plants. Weekly ranges of wages are shown for different occupations in various industries.

The following statement summarizes some of the more important data concerning textile mills for the calendar years 1920 and 1921, the earlier figures being taken from the ninth annual report of the

commissioner of commerce and labor:

	1920.	1921
Number of mills	184	190
Total capital		\$102, 758, 621. 21
Total cost of raw material	\$134, 589, 558. 20	\$58, 640, 922. 78
Total value of manufactured product Total amount paid in salaries to officers and		\$127, 758, 977. 66
clerks		\$2,975,575.65
Total amount paid to wage earners		\$17, 081, 264. 95
Total amount paid for repairs to machinery		1 \$9, 942, 096. 44
Total number of white operatives		34, 631
Total number of negro employees	3, 209	2, 172

Of the 34,631 white operatives in the textile mills in 1921, 33,401 were over 16 years of age, and of these 19,577 were male and 13,824 females. Of the 2,172 negro employees, 1,613 were males and 559 females.

There was considerable unemployment in the State in 1921. During that year six free limited employment offices were conducted in Georgia under the supervision of the Department of Commerce and Labor, the expenses of these offices being carried by municipalities in Atlanta and Savannah, by chambers of commerce in Macon, Waycross, and Columbus, and by cooperation in Augusta between the municipality and the Y. M. C. A. According to the records, employment was secured by these offices for only 2,604 persons in 1921. Many other persons, however, were referred to positions, and may have obtained employment, but in regard to

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<sup>1</sup> Includes amount paid for new machinery.

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these no reports were received. Of the 16 paid employment offices operating in the State during the year covered, 6 were especially for teachers, 3 were for negroes only, and 7 conducted miscellaneous business. These paid offices furnished positions to 2,934 persons. Out of the 4,355 who registered, 1,421 failed to secure employment although they had paid for registration. The registration fees, as in 1920, ranged from \$2 to \$5. An additional fee of from \$3 to 20 per cent of the first month's salary is also collected. Some of the offices furnishing positions for teachers ask no registration fee but collect as much as half of the first month's salary.

The commissioner recommends an amendment to the law stipulating that such offices shall return the registration fee to the applicant unless a job is furnished within 30 days. The passage of legislation to promote industrial sanitation and to establish industrial

schools is also recommended by the commissioner.

## Maryland.1

THE State board of labor and statistics is reorganizing its department for the enforcement of the child labor law and the 10-hour law for women, and is planning a campaign against the illegal em-

ployment of minors.

The work of the board is being redistricted and will include the recently annexed portion of the city, which means that an additional 48.58 square miles will have to be covered by the inspectors. The board is also organizing an industrial clinic, and in future industrial hygiene will constitute a part of the work of the medical department

#### New York.2

THE New York industrial code requires factory building owners to furnish safety devices for windows cleaned from the outside. The men who do this hazardous work are also required to use such devices. The neglect of the owner to provide these safety attachments is a misdemeanor. The failure of window cleaners to use these attachments when they are furnished is regarded as equally criminal. Carelessness on the part of workers in this occupation has resulted in raising the compensation insurance rate for employers engaged in the window-eleaning business higher than any other compensation rate. The State department of labor's bureau of inspection has been active in bringing about the enforcement of the law, and only recently a window cleaner was jailed for neglecting to use the safety device while cleaning a window on the outside of a high building.

Under a new plan inaugurated by the State industrial commissioner in New York City, persons against whom the Department of Labor has issued orders for less important violations of law, instead

Letter, under date of Aug. 11, 1922, from the chairman of the Maryland Board of Labor and Statistics.
 New York (State). Department of Labor. The Industrial Bulletin. Albany, May, 1922.

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of being summoned to court will be given the opportunity of a hearing before the commissioner. Orders will still be issued and ample time accorded to comply with them. When the inspector finds, however, that they have not been complied with, the offenders will be haled before the commissioner to show why they have not carried out the orders.

It was formerly the department's practice to send inspectors over and over again to mercantile establishments and factories to urge compliance with the law's requirements. The guilty party was not prosecuted until all other methods had been exhausted. The department found that when these cases of minor violations were taken into the courts they were dealt with very leniently and sentences were often suspended. The new system of handling these violations was immediately successful, resulting in an immense increase in the number of compliances with the labor law. In the New York City district the records show that complete compliance was secured in nearly all of the 1,500 cases in which summonses had been issued and which had been considered by the commissioner. In less than 50 of these cases was there recourse to the courts for criminal prosecution. The industrial commissioner has also successfully tried out the same plan in Buffalo, Rochester, Syracuse, and Albany. This method not only brings about compliance with orders, but also has done away with a great deal of irritation arising from criminal prosecutions. A short time ago the New York City tenement house department adopted the same system.

#### Industrial Conference.

The New York State industrial conference will be held at Buffalo November 22 and 23, 1922, under the auspices of the New York State Department of Labor, according to a press release of that department dated July 28, 1922. While this conference will cover the same subjects as the former Industrial Safety Congress of New York State, it will also take up other industrial matters of general interest. The underlying theme of the conference will be "elimination of waste in industry." It is planned to have some one of the New York

waste in industry." It is planned to have some one of the New York State industrial leaders preside at each session of the conference and

to have the discussions led by experts of national reputation.

#### North Carolina.1

EARLY in August, 1922, there appeared to be a surplus of labor in practically all lines of work in North Carolina, which was attributed to a shortage of construction materials. Unemployment conditions were more unfavorable than they were in the preceding month. The situation might be considerably relieved if freight were delivered more promptly, but few new projects are pending that promise an increased demand for labor in the near future.

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<sup>&</sup>lt;sup>1</sup> From a letter dated Aug. 2, 1922, inclosing typewritten report from the commissioner of the State department of labor and printing.

The department has recently been largely engaged in securing positions for the unemployed. The following is a report relative to this activity for the week ending July 29, 1922:

Party vint been escapised with the offender V	Men.	Women.	Total
Registrations	424	122	546
Requests for help	373	87	460
Referred	458	107	565
Placed	407	77	484

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### Oklahoma-Progress in Safety Work.

A MONG the most decided forward steps in safety work in Oklahoma during the past year are the following, according to a communication received early in August, 1922, from the commissioner of labor of that State:

1. The making of a detailed first-hand study by the factory inspectors of all important accidents, with a view to the prevention of such accidents. Each factory inspector is furnished with a list of all accidents that have occurred during the month and is directed to investigate personally those which have happened in the district he is assigned to visit, to issue orders, if necessary, to correct the defective conditions from which the accidents resulted, and to report in detail on the matter when the circumstances warrant.

2. The furthering of the idea of group meetings of employees and employers in certain industries for the purpose of getting them actively interested in the various phases of safety work.

3. Efforts to improve the department's detailed suggestions and safety standards in order to overcome the prejudices of employees and employers. Frequently superintendents, managers, and the workers have the idea that the only way to comply with safety orders is by following strictly the detailed specifications, when, as a matter of fact, they may have considerable choice in the selection of methods and guards. During the past year a great deal has been done by the State's factory inspectors through cooperation rather than through the spirit of legal compulsion. These inspectors have all the necessary safety arguments to convince the management, after which there is little difficulty in reaching superintendents, foremen, and the operatives themselves. The department's orders for guarding transmission machinery conform as far as practicable with the industrial compensation schedule of the National Workmen's Compensation Service Bureau so that the expense of putting the establishment in proper physical condition "becomes an investment for the employer." The inspectors discourage the removal of guards already installed.

4. The adoption of the safety code of the American Society of Mechanical Engineers for the governing of the manufacture, installation, and operation of steam boilers, and for regulation of the manufacture, installation, and operation of passenger and freight elevators, and the lighting code of the Illuminating Engineering Society for mercantile establishments and factories.

5. The extension of the idea of safety education in a number of the Oklahoma schools. It is thought that this work holds the largest promise for the safety movement.

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## Pennsylvania.

A VIRTUAL State-wide shortage in skilled, semiskilled, and common labor in Pennsylvania is reported by the July, 1922, issue of "Labor and Industry" of the Pennsylvania Department of Labor and Industry. The demand for workers is greatest in agriculture, building, and steel industries and textile manufacturing. "The shortage is found specifically in farming and building operations." A marked demand for labor is being created in the metal trades. The common labor shortage has resulted in increasing wages from 25 to 35 and 40 cents per hour. Plasterers, bricklayers, and mechanics are scarce. In many places the shortage is being relieved by unemployed miners. On June 1, 1922, there were 301,140 miners voluntarily unemployed; on June 15, 1922, 275,498 a decrease of 25,642. In the second week in June, 1921, only 1,286 persons were placed out of 10,723 applicants; in the same period in 1922 there were 2,700 placements to 4,778 applications.

were 2,700 placements to 4,778 applications.

Fund for public works.—The legislature's appropriation of \$40,000 for an emergency fund for public works is to be spent in improvements around the capitol in Harrisburg. The use of the money was made contingent upon a period of unusual unemployment, the industrial board to determine the time for such expenditure. The use of the fund was authorized in the fall of 1921, but a number of technicalities delayed action in the matter. The main advantage of this fund is not in the number of persons it keeps employed at present, but in the

State's recognition of cyclical industrial depressions.

University course on Pennsylvania's rehabilitation work.—Pennsylvania was selected as the State whose work in rehabilitating and returning disabled persons to productive employment should be described in detail in the summer lecture course scheduled for the week of July 17, 1922, on "Technique of vocational rehabilitation" at Columbia University, given through the cooperation of the Pennsylvania Bureau of Rehabilitation and the Federal Board for Vocational Education.

Exhibits of bureau of rehabilitation.—Lantern slides made from photographs of disabled persons suitably employed or in training for employment in the State, under the direction of the Pennsylvania bureau of rehabilitation, will form a part of the United States Government's exhibit at the International Centennial Exposition in Rio de Janeiro, beginning September 7, 1922, in commemoration of the one-hundredth anniversary of Brazil's independence.

Numerous photographs showing what Pennsylvania has done in the way of returning disabled persons to remunerative jobs have been sent by request to other States, and the first illustrated report of the bureau of rehabilitation has been forwarded to authorities in other States in which the legislatures have been considering the institution

of industrial rehabilitation.

Time and money losses resulting from recent suspension of mining in Pennsylvania.—The losses in wages in April, May, and June, 1922, of the 322,286 men involved in the suspension of work by the anthracite and bituminous miners of the State is estimated at \$113,789,115. As

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the number of possible working days in these three months was 76½, the daily wage loss was \$1,614,030. It is reported that in the anthracite region for this period 143,520 men lost about \$59,590,800 in wages and 10,118,160 days of work. In the bituminous districts the loss was approximately \$63,198,315 in wages and 12,639,663 days.

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Neglect of safety work.—The Bureau of Inspection reports that a number of establishments in the State have been neglecting their safety work and that there seems to be a nation-wide tendency to reduce costs in industrial plants by eliminating first-aid equipment and safety men. In efforts to retrench in the face of business depression, safety work is said to be the first to suffer, employers failing to realize that such work costs less than accidents. The expense of breaking in a new man must also be added to the compensation cost.

Carelessness was a direct cause of 36 out of 64 industrial accidents investigated in April and May, 1922.

Survey of industrial dental dispensaries.—In 1921 the Division of Hygiene and Engineering sent out a questionnaire to various industrial establishments with reference to dental dispensary work. A large proportion of the firms to whom the inquiry was addressed did not have such dispensaries. Of the 59 filled-in returned schedules some were completed only in part. These replies came from 19 States and 1 Canadian Province—Ontario. Of the 59 firms reporting on their dental service, 12 were in Pennsylvania, 11 in Ohio, 8 in New York, 6 in Massachusetts, 4 in Illinois, and 2 each in Michigan, Minnesota, and New Hampshire, the other States and the Province of Ontario being represented by only 1 establishment each.

The number of employees in 56 firms ranged from 42 to 45,000, the total number being 282,503 and the average per plant, 5,045. The percentage of persons making use of dental service in 33 plants was 59.7. The average number of units in each dental dispensary, based on replies from 52 firms, was 1.1, the number of employees per unit, 1,807, and the number of employees using dental service per unit, 1,008

The following data were given relative to the number of employees per dentist:

Number of employees served by 58 full-time dentists.  Average number of employees served by 1 full-time dentist	116, 983 2, 017
Number of employees served by 37 full-time dentists without assistance from part-time dentists.  Average number of employees served by 1 full-time dentist without assistance	77, 302
from part-time dentists	2, 089
full-time dentists	165, 520
from full-time dentists	3.941

Replies on cost of original equipment were received from 53 firms, the average cost for one plant per year being \$1,958.03. The least cost of equipment in one plant was \$329.29, the greatest, \$8,000. Only 27 firms submitted figures on cost of dental operation per patient per year. The average cost is reported as \$3.38. Some of the figures on division of cost, based on replies from 57 firms, are given below:

WHAT STATE LABOR BUREAUS ARE DOING.	225
Percentage of plants in which employer bears entire cost	56. 1
parcentage of plants in which cost is shared by employer and employee	43.9
Percentage of plants in which employers pay 75 per cent or more of the cost  Percentage of plants in which employers pay between 50 and 74 per cent, in-	57. 9
clusive, of the cost	17.5
percentage of plants in which employers pay less than 25 per cent of the cost	1.8
Percentage of plants in which proportion of cost shared by employer and employees is not indicated	22. 8

Of the dental services of 56 firms, 100 per cent make examinations, 96.4 per cent do cleaning, 89.3 per cent give emergency treatment, 64.3 per cent do operative work which is not emergency, and 44.6 per cent, radiographic work.

All but one of 56 establishments stated that they regarded the operation of an industrial dental dispensary a success. One firm

reported its dispensary as only a partial success.

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## Virginia.

THE commissioner of labor of Virginia reported, under date of August 7, 1922, that a women's and children's division had just been established in the State bureau of labor and industrial statistics.

The new child-labor law of Virginia is in many ways "a radical departure" from the previous act, and the women's and children's division has been concentrating its activities in endeavoring to secure the employers' cooperation and to make this new legislation really effective. Much has been done along this line as the result of a conference held at the house of delegates, which was attended by large employers of child workers, the Children's Code Commission, the State Federation of Labor, the attorney general, the superintendent of public instruction, the commissioner of labor, and welfare and social workers.

The principal efforts of the bureau of labor and industrial statistics, the commissioner stated, were being directed toward the maintenance of peace during the crisis brought about by the coal and railroad strikes. Although the Virginia miners are not organized, coal production had at the above-mentioned date practically ceased as a result of the railroad strike. When the strike conditions seemed in the judgment of the Bureau of Labor and Industrial Statistics to be growing acute at any point a representative of the office went to that particular place, thoroughly investigated the situation, and reported the facts to the governor. This was the procedure on several occasions when there was an urgent call for troops. Upon investigation, however, and after the striking railroad workers had been advised against any manifestations of disorder, it was found that there was no need of ordering out troops.

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## OFFICIAL PUBLICATIONS RELATING TO LABOR.

#### United States.

ALASKA. - Territorial Mine Inspector. Annual report, 1921. Juneau, 1922. 96 pp. Extracts from this report are published on pages 66, 115, 116, 194, and 195 of this issue of the Monthly Labor Review.

Georgia.—Department of Commerce and Labor. Tenth annual report, for the fiscal year ending December 31, 1921. Atlanta, 1922. 83 pp.

This report is summarized on pages 219 and 220 of this issue of the Monthly LABOR REVIEW.

ILLINOIS.—Industrial Commission. Annual report for fiscal year ending June 30, 1921. and statistical report for calendar year 1920. Springfield, 1922. 32 pp.

A summary of this report appears on pages 197 and 198 of this issue of the Monthly LABOR REVIEW.

KANSAS .- Court of Industrial Relations. Second annual report for the year ending December 31, 1921. Topeka, 1922. 107 pp.

The section of the report relating to the industrial division is summarized on pages 12 and 13, that on the minimum wage on page 131, and that on workmen's com. pensation on pages 198 and 199 of this issue of the Monthly Labor Review.

MASSACHUSETTS.—Department of Labor and Industries. Board of Conciliation and Arbitration. Report, together with the decisions rendered by the board for the year ending November 30, 1921. Boston, 1922. 122 pp.

A brief summary of this report appears in the Monthly Labor Review for June. 1922, page 213.

Department of Public Welfare. Division of housing and town planning. Report for the year ending November 30, 1921. Boston [1922]. 47 pp.

Contains reports of the town planning boards of the State and proceedings of the eighth annual conference of Massachusetts planning boards.

NEW YORK. - Joint Legislative Committee on Housing. Intermediate report. Albany, 1922. vi, 257 pp. Legislative document (1922), No. 60.

This report is summarized on pages 165 to 168 of this issue of the MONTHLY LABOR

Department of Labor. Economic value of maintaining clean windows and lighting fixtures. Albany, 1922. 15 pp. Special bulletin No. 112.

NSYLVANIA.—Department of Labor and Industry. Proceedings of the Industrial Relations Conference, October 24-27, 1921. [Harrisburg] 1922. 252 pp. Vol. IX, Series of 1922, No. 2

The addresses made at the various sessions of this conference dealt with the following nine leading topics: (1) Industrial cooperation; (2) the foreign outlook; (3) women and children in industry; (4) stabilizing industry and employment; (5) industrial waste; (6) industrial education; (7) industrial publicity; (8) medical supervision in industry, and (9) workmen's compensation.

The addresses at the meeting of approved boiler inspectors of Pennsylvania on October 24, 1922, take up 25 pages of the publication.

Department of Public Instruction. Mothers' Assistance Fund. Report, 1920. Harrisburg, 1922. 133 pp.

WEST VIRGINIA.—Bureau of Labor. Directory of industries. Charleston, 1922. 63 pp.

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A on p UNITED STATES.—Department of Commerce. Bureau of Foreign and Domestic Commerce. Venezuela: A commercial and industrial handbook, with a chapter on the Dutch West Indies. Washington, 1922. xvi, 472 pp. Special agents series, No. 212.

A summary of the sections dealing with economic and labor conditions is given on page — of this issue of the Monthly Labor Review.

- Bureau of Standards. National electrical safety code. Third edition. Washington, 1921. 366 pp. Handbook series, No. 3.
- Department of Labor. Bureau of Labor Statistics. Comparison of workmen's compensation insurance and administration. Washington, 1922. 194 pp. Bulletin No. 301. Workmen's insurance and compensation series.

A résumé of this report appears on pages 196 and 197 of this issue of the Monthly Labor Review.

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A revised and enlarged edition of a pamphlet reproduced in the Monthly Labor Review for March, 1921, pp. 159-167. Both the groups of hazards and the number of hazardous occupations have been materially increased and a considerable amount of text matter has been added.

ington, 1922. 178 pp. Bulletin No. 293. Industrial accidents and hygiene series.

This report is reviewed on pages 178 and 179 of this issue of the Monthly Labor Review.

- Bureau of Naturalization. Federal citizenship textbook. A course of instruction for use in the public schools by the candidate for citizenship. Part III Washington, 1921. 104 pp.
- — Children's Bureau. Industrial home work of children. A study made in Providence, Pawtucket, and Central Falls, R. I. Washington, 1922. 80 pp. Bureau publication No. 100.

A summary of this report is given on pages 146 to 148 of this issue of the MONTHLY LABOR REVIEW.

— Women's Bureau. Women in Georgia industries: A study of hours, wages and working conditions. Washington, 1922. 89 pp. Bulletin No. 22.

The main findings of this study were contained in a preliminary report issued in 1921 for the use of interested parties, which was summarized in the Monthly Labor Review for October, 1921, pp. 165-169.

— Department of the Interior. Bureau of Education. Salaries of teachers and of principals in certain cities. Washington, April, 1922. 14 pp.

A report on the salaries paid elementary and junior high-school teachers and elementary and junior high school principals for 1921-22 in cities of 2,500 inhabitants and more. As about 60 per cent of the superintendents responded to the request made for information by the Commissioner of Education, the data given may be considered representative of the salaries paid these classes of teachers. The report calls attention to the fact that one-third of the teachers in cities whose populations range from 2,500 to 10,000 receive less than \$1,000 a year; while one-half of the elementary teachers in this group of cities are paid less than \$1,097 a year. In cities with a population of from 10,000 to 25,000, 15 per cent of the teachers receive less than \$1,000 a year, while in cities of 25,000 to 100,000 only 7 per cent of the teachers are still below the \$1,000 class.

Government Printing Office. The training of apprentices in the Government Printing Office. Washington, 1922. 24 pp.

An outline of courses for the training of apprentices. An account of these courses is given on pages 163 and 164 of this issue of the Monthly Labor Review.

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United States.—Railroad Labor Board. Proceedings. Brotherhood of Locomotive Engineers Brotherhood of Locomotive Firemen and Engineenen, Brotherhood of Railroad Trainmen, Order of Railway Conductors, Switchmen's Union of North America vs. AnnArbor Railroad Company et al. (Docket No. 845, vol. 1). Chicago, Ill., October 26, 1921. Washington, 1921. 134 pp.

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This volume contains the testimony of the Brotherhood chiefs at the hearings ordered by the Railroad Labor Board to inquire into the reasons for and conditions

of the threatened interruption of traffic in the fall of 1921.

# Foreign Countries.

Australia (New South Wales).—Board of Trade. Apprenticeship in New South Wales. Sydney, 1922. xiii, 160 pp. Chart.

A report of the determinations and directions concerning apprenticeship set out in the form of a scheme of regulations applicable to apprenticeship in the industries. The board of trade reached these conclusions as a result of public hearings and other investigations. The proposed regulations prescribe the industries, crafts, and occupations to which they shall apply, the form of contract, length of apprenticeship and probationary period, wages, hours, etc. Every apprentice who does not already have such training is required to attend or receive instruction from a State continuation or trade school or technical college or instructional factory or any institution for continued or trade or technical education or supplementary workshop training provided by public enterprise or by any master or group or association of masters and approved by the board, for not less than five hours per week over a period of not less than three years. Apprentices under 16 years of age make such attendance or receive such instruction during working hours. After reaching their sixteenth year apprentices are to be allowed three hours per week in the master's time. Wages were fixed on the principle that "wages payable to apprentices must enable the skilled industries to compete with the uneducative occupations for the services of the young."

—— (VICTORIA).—Department of Lands. Land settlement in Victoria. Melbourne, 1920. 64 pp. Illustrated.

A handbook for soldiers and other prospective settlers, showing methods of acquiring land under the several land settlement acts, and containing information in regard to phases of agriculture and to agricultural processes successfully followed in Victoria.

— (WESTERN AUSTRALIA).—Government Statistician. Pocket yearbook, 1922. Perth, 1922. 104 pp.

Wages of adults in principal occupations are given on pages 44-47.

Belgium.—Caisse Générale d'Épargne et de Retraite. Compte rendu présenté au conseil d'administration. Année 1920. Brussels, 1922. 90 pp.

A report of the operations of the General Savings and Retirement Fund of Belgium for the year 1920. The report covers the general activities of the savings fund, including the loans made to farmers through the farm banks and the cooperative agricultural societies and the loans to societies for the erection of workingmen's houses, also the operation of the retirement fund and the insurance and accident insurance funds.

CANADA.—Civil Service Commission. Annual report, 1921. Ottawa, 1922. xviii, 128 pp. No. 32, 1922.

DENMARK (COPENHAGEN).—Statistiske Kontor. Statistisk Aarbog for København og Frederiksberg 1921. Copenhagen, 1922. xvi, 158 pp.

Statistical yearbook for Copenhagen and Fredericksberg for 1921.

FRANCE (DÉPARTÉMENT DE LA SEINE).—L'Office Public d'Habitations a Bon Marché. La crise du logement et l'intervention publique en matière d'habitation populaire dans l'agglomération parisienne. Volumes 1-4. Paris, 1921. 1,250 pp.

This report on the housing crisis in Paris and its suburbs includes a historical summary and a discussion of economic conditions and of the establishment of public hous-

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é. re ing offices. The second volume is devoted to housing developments in other European countries, England, Canada, Australia, and the United States, and the third to the development of housing projects in Paris and the vicinity. The fourth volume contains the text of French housing legislation and reports of housing committees. There are pictures and plans of various housing developments.

GERMANY.—Statistisches Reichsamt. Statistisches Jahrbuch für das Deutsche Reich. 41. Jahrgang, 1920. Berlin, 1921. xxxvi, 281, 46\*, 33 pp. Charts.

The forty-first issue of the official German statistical yearbook published by the German National Statistical Office and covering the year 1920. The present issue covers essentially the same subjects as the preceding issues. Of special interest to labor are the statistical data on labor disputes, production in mines, and the iron and steel industry, building activities and housing, the number of workers (by age and sex) employed in the various industry groups, prices, wages, social insurance, cooperative societies, the labor market, employment exchanges, and employers' and workers' organizations.

GREAT BRITAIN.—Department of Scientific and Industrial Research. Experimental cottages: A report on the work of the department at Amesbury, Wiltshire. London, 1921. 77 pp. Illustrated.

Deals with five cottages built according to designs and instructions prepared by the department, the purpose being to test various old methods of construction which had fallen into disuse and which it might prove desirable to revive, and also to test new methods of constructing floors, roofs, and the like. Full details are given of the methods used, with photographs, diagrams, and specifications.

— [Factory Department.] Inspector of factories and workshops. Report, 1921. London, 1922. 131 pp. Cmd. 1705.

The report states that 92,565 accidents, of which 951 were fatal, were reported during 1921, as compared with 138,773, of which 1,404 were fatal, in 1920. This remarkable decrease is believed to be largely due to the inactivity in industry and to unemployment in the coal fields. Welfare work has, on the whole, held its own in the face of adverse industrial conditions. Slackness in regard to precautions against industrial diseases has been more noticeable during the dull business period. The 48-hour week is now very general in British industry, and the one-break day is common everywhere. Overtime has been greatly reduced by the industrial depression. The employment of young people has perceptibly diminished.

— Home Office. Departmental committee on lighting in factories and workshops. Third report. London, 1922. 38 pp. Cmd. 1686.

The report deals principally with the classification of industrial processes according to the illumination required for carrying on the work, and with an investigation of the effects of mixed natural and artificial lighting.

— Inspectors of explosives. Annual report, 1921. London, 1922. 30 pp. Cmd. 1632.

The report shows that during the year there were 261 accidents due to explosives, causing 35 deaths and injuries to 235 persons. Because of the stoppage in the coalmining industry from April to July and the consequent absence of blasting operations, there was a considerable decrease as compared with the previous year. Over 92.7 per cent of the accidents causing death or personal injury occurred in the use of explosives and under miscellaneous conditions not covered by the act, and these accidents caused 30 of the 35 deaths and 219 of the 235 cases of injury.

— Imperial Mineral Resources Bureau. Laws and regulations relating to lead poisoning. Being an analysis with texts of the laws and regulations made in the chief industrial countries to prevent plumbism. London, 1922. 250 pp.

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GREAT BRITAIN.—Industrial Fatigue Research Board. Report No. 18: Two investigations in potters' shops. London, 1922. 74 pp. Potteries series No. 1.

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This report relating to atmospheric conditions in potteries compares conditions in this industry with those in other industries for which similar data are available, and discusses the relative merits of different types of stoves.

- Ministry of Labor. Interdepartmental committee on health and unemployment insurance. First and second interim reports. London, 1922. 10 pp. Cmd. 1644.
- —— Privy Council. Medical Research Council. First report of the miners' nystagmus committee. London, 1922. 64 pp. Illustrated. Special report series, No. 65.

A summary of this report was given in the Monthly Labor Review for July, 1922, pp. 140, 141.

— (Scotland).—Board of Agriculture. Tenth report, for year ended December 31, 1921. Edinburgh, 1922. 126 pp. Cmd. 1692.

Wages and hours of farm workers prevailing September 30, 1921, appear on pages 122-125.

— Board of Health. Third annual report, 1921. Edinburgh, 1922. 365 pp. Cmd. 1697.

In addition to strictly health data, the report discusses housing and town planning, national health insurance, poor relief, unemployment relief, and old-age pensions.

- INDIA (AJMER-MERWARA).—[Registrar of Cooperative Societies.] Report on the working of the cooperative societies in the district of Ajmer-Merwara for the year ending June 30, 1921. Ajmer, 1921. 32 pp.
- (Assam).—[Registrar of Cooperative Societies.] Report on the working of the cooperative societies in Assam for the year ending March 31, 1921. Shillong, 1921. 19 pp.
- —— (BIHAR AND ORISSA).—[Registrar of Cooperative Societies.] Report on the working of cooperative societies in Bihar and Orissa for the year 1920-21. Patna, 1921. 29, xvii, 3 pp.
- —— (CENTRAL PROVINCES).—Agriculture Department. Report on the working of the cooperative societies in the Central Provinces and Berar for the year 1920-21. Nagpur, 1922. 19, xxxix pp.
- —— (Punjab).—[Registrar of Cooperative Societies.] Report on the working of the cooperative societies in the Punjab for the year ending July 31, 1921. Lahore, 1921. 6, 43, xciii pp.
- —— (United Provinces).—[Registrar of Cooperative Societies.] Annual report on the working of cooperative societies in the United Provinces of Agra and Oudh for the year 1920-21. Allahabad, 1921. 11, xxiii, 7a, 2 pp.

These reports were summarized on pages 222 and 223 of the Monthly Labor Review for August, 1922.

NETHERLANDS.—Bureau Central de Statistique des Pays-Bas. [The Hague, 19221] [36 pp.] Illustrated.

An illustrated brochure describing the organization and activities of the Central Bureau of Statistics of the Netherlands and containing several tables of comparative statistics on population, elections, State and municipal finances, employment exchanges, unemployment, unemployment insurance, trade-unions, collective agreements, miners' and metal workers' wages, wholesale prices, cost of living, consumption of food, housing, bank deposits, poor relief, and import and export trade.

— Centraal Bureau voor de Statistiek. Statistiek der spaar- en leenbanken in Nederland, over het jaar 1919–1920. 's-Gravenhage, 1922. 22 pp. Bijdragen tot de statistiek van Nederland. Nieuwe volgreeks. No. 339.

Statistics of savings and loan banks in the Netherlands for the year 1919-20.

- Verslag over het jaar 1921. 's-Gravenhage [1922]. 28 pp.
- -- Centrale Commissie voor de Statistiek. Jaarverslag over het jaar 1921. 's-Graven-hage [1922]. 100 pp.

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Netherlands.—Kamers van Arbeid. Overzicht van de verslagen over 1920. 's-Gravenhage, 1922. 50 pp.

Summary of the annual reports for 1920 made by the Dutch labor councils to the National Department of Labor.

Woningraad. Jaaverslag ter voorlichting van de regeering bij de beghartiing van de belangen der volkshuisvesting over 1921. 's-Gravenhage, 1922. 62 pp.

Annual report of the activities of the housing office of the Netherlands for 1921.

NORWAY.—Hovedstyret for Statsbanene. Norges jernbaner. Beretning for året 1 Juli 1920-30 Juni 1921. Christiania, 1922. 65\*, 266 pp. Norges Offisielle Statistikk. VII. 41.

Report on Norwegian railroads for the period July 1, 1920, to June 30, 1921. Contains information relative to State railroad pension funds and accidents.

— Riksforsikringsanstalten. Sjømannsforsikringen for året 1919. Ulykkesforsikring for Sjømenn. Fiskerforsikringen for året 1920. Ulykkesforsikring for Fiskere m. v. Christiania, 1922. 33, 12\*, 29 pp. Norges Offisjelle Statistikk, VII. 37.

This volume contains reports of the State Seamen's Accident Insurance for the year 1919 and of the State Fishermen's Accident Insurance for 1920. A brief summary of the latter appears on page 201 of this issue of the Monthly Labor Review.

— Ulykkesforsikringen for industriarbeidere m. v., 1919. Christiania, 1922. 19\*, 99 pp. Norges Offisielle Statistikk, VII. 45.

Report by the State insurance office for industrial workers in the year 1919. This report covers those establishments coming under the law of August 13, 1915, as to accident insurance in industries. Self-insurers are not included.

— Statistiske Centralbyrå. Arbeidslønninger 1920 og 1921. Christiania, 1922. 9\*, 66 pp. Norges Offisielle Statistikk, VII. 44.

Report by the Central Statistical Bureau showing wages in Norway, in cities and country districts, in 1920 and 1921, and by five-year periods 1850-1920, etc.

Sweden.—Kommerskollegium. Industri. Berättelse for år 1920. Stockholm, 1922.

157 pp. Sveriges Officiella Statistik. Industri och Bergshantering.

Official report on Swedish industries for 1920. Contains a table showing the number of workers by industries, the total number of hours worked, and the average hours per worker in each industry in 1920. A new table has been added to the report classifying the industries by number of workers. The report shows that in 1920 there were 12,022 establishments with 463,066 employees.

— Socialstyrelsen. Kooperativ verksamhet i Sverige åren 1917-1919. Stockholm, 1922. 167 pp. Sveriges Officiella Statistik. Socialstatistik.

Report by the Swedish Labor Bureau (Socialstyrelsen) on the activities of Swedish cooperative societies during 1917-1919.

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